

Tab 2



(12) **United States Patent**
Nareddy et al.

(10) **Patent No.:** US 7,035,925 B1
(45) **Date of Patent:** *Apr. 25, 2006

(54) **PARSING NAVIGATION INFORMATION TO IDENTIFY INTERACTIONS BASED ON THE TIMES OF THEIR OCCURRENCES**

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(73) Assignee: **Revenue Science, Inc.**, Bellevue, WA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 11 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: 11/149,036

(22) Filed: Jun. 8, 2005

Related U.S. Application Data

(62) Division of application No. 10/005,183, filed on Dec. 5, 2001.

(51) **Int. Cl.**
G06F 15/173 (2006.01)

(52) **U.S. Cl.** 709/224; 709/203; 709/218; 709/223; 707/1; 707/6; 463/37; 463/38

(58) **Field of Classification Search** 709/223, 709/224, 203, 218, 219, 225, 229; 707/1-10; 705/14, 26, 27, 37, 400; 715/853, 854; 725/32, 725/34

See application file for complete search history.

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Primary Examiner—Saleh Najjar

Assistant Examiner—Vitali Korobov

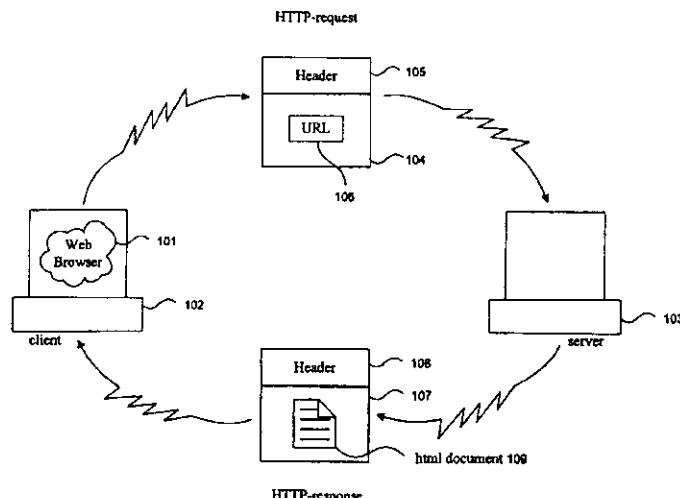
(74) *Attorney, Agent, or Firm*—Perkins Coie LLP

(57)

ABSTRACT

A method, system and computer-readable medium for analyzing interaction or usage data, such as for customers, is described. Various data parsing information may be defined and used as part of the analysis, such as by using customer-specific information to identify various occurrences of interest. For example, the parser component can use data defining customer-specific categories of content set items and customer-specific types of events of interest. Such high-level types of occurrences can be specified in a variety of ways, such as by using a combination of a logical web site, one or more URIs corresponding to web pages, and/or one or more query strings. In addition, in order to associate the appropriate data parsing information with data to be processed, the data parsing information can also include version information that specifies when it is applicable. The data parsing information may also map actual web sites to logical sites.

39 Claims, 60 Drawing Sheets



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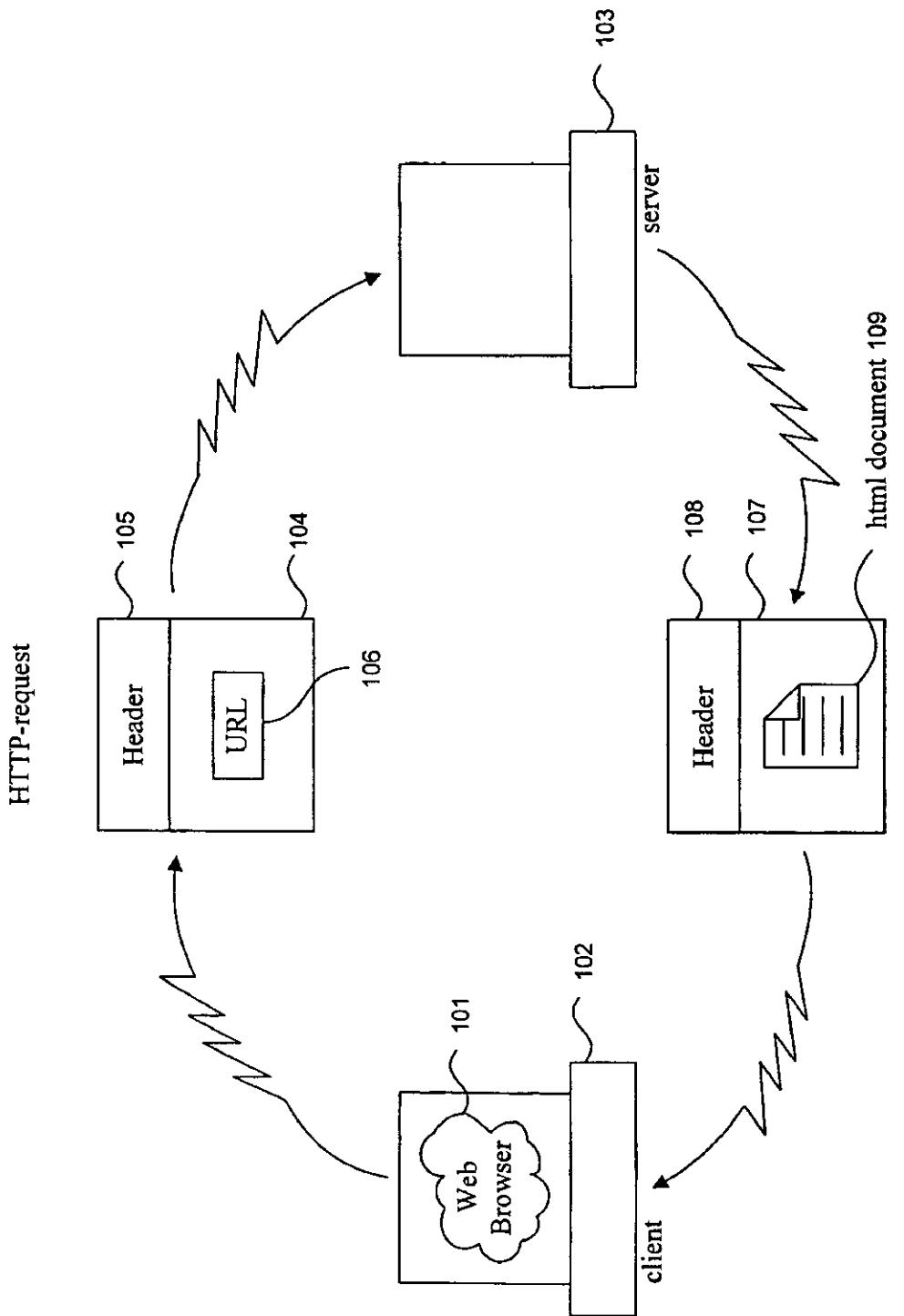


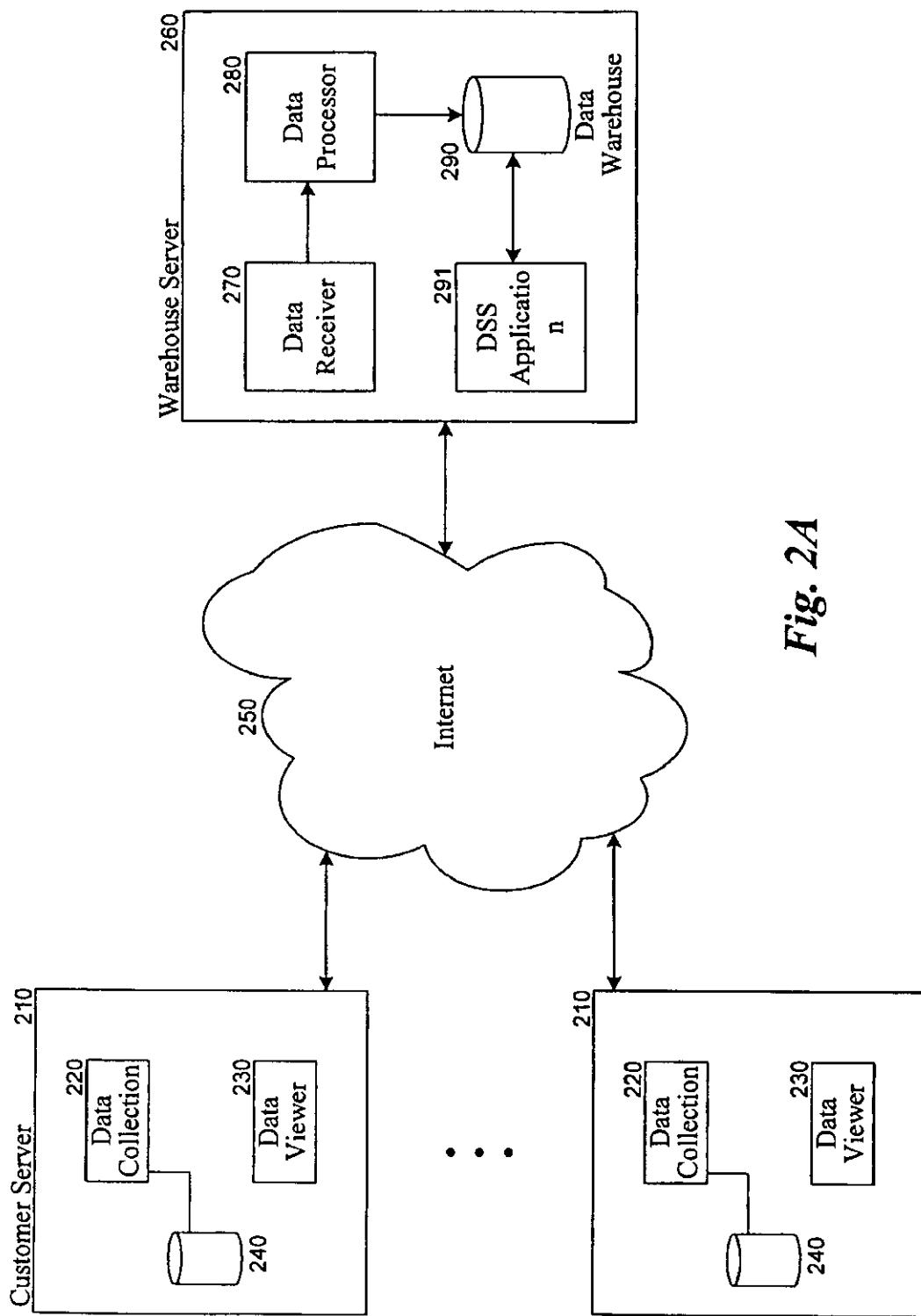
Fig. 1

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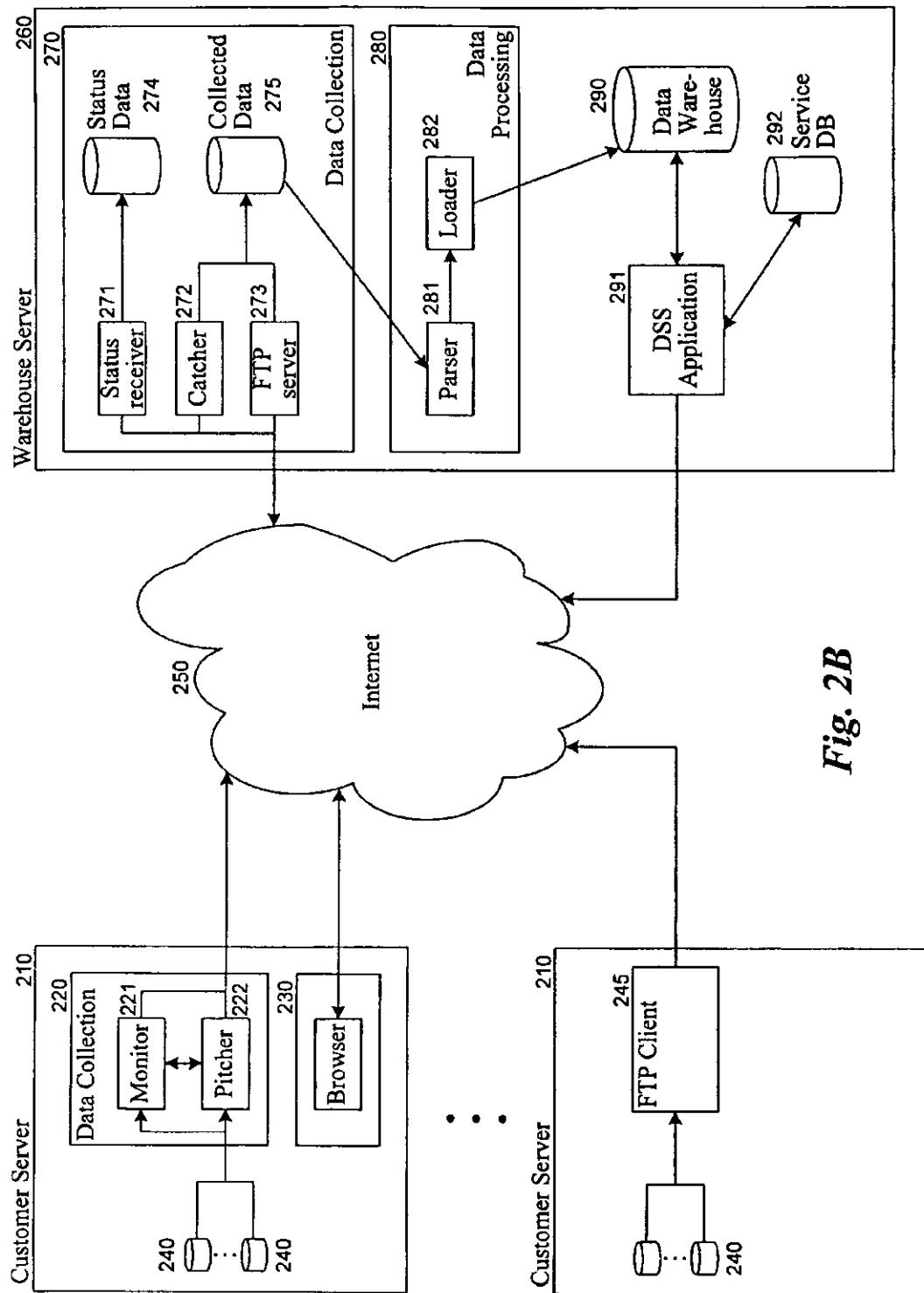


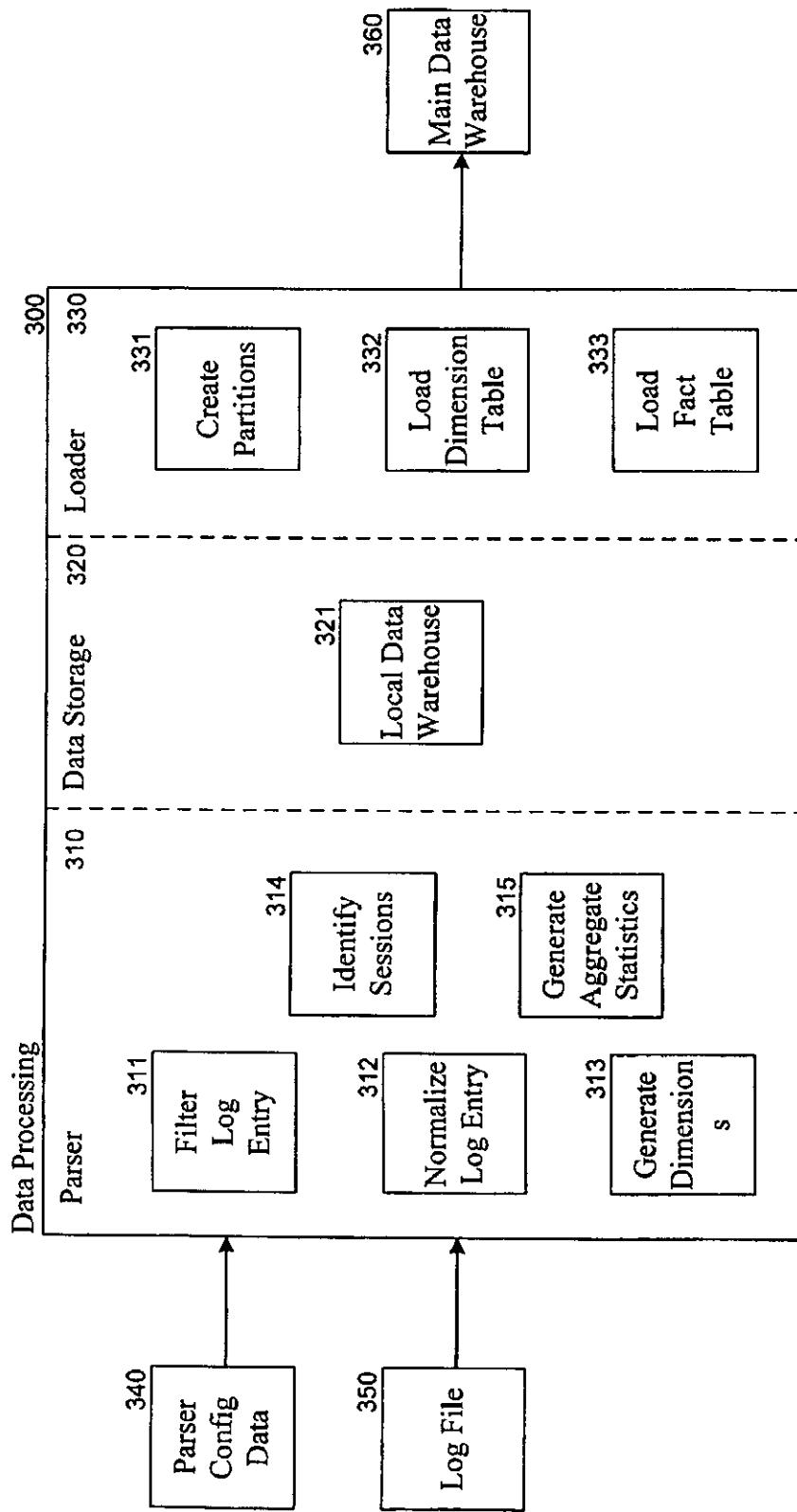
Fig. 2B

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*Fig. 3*

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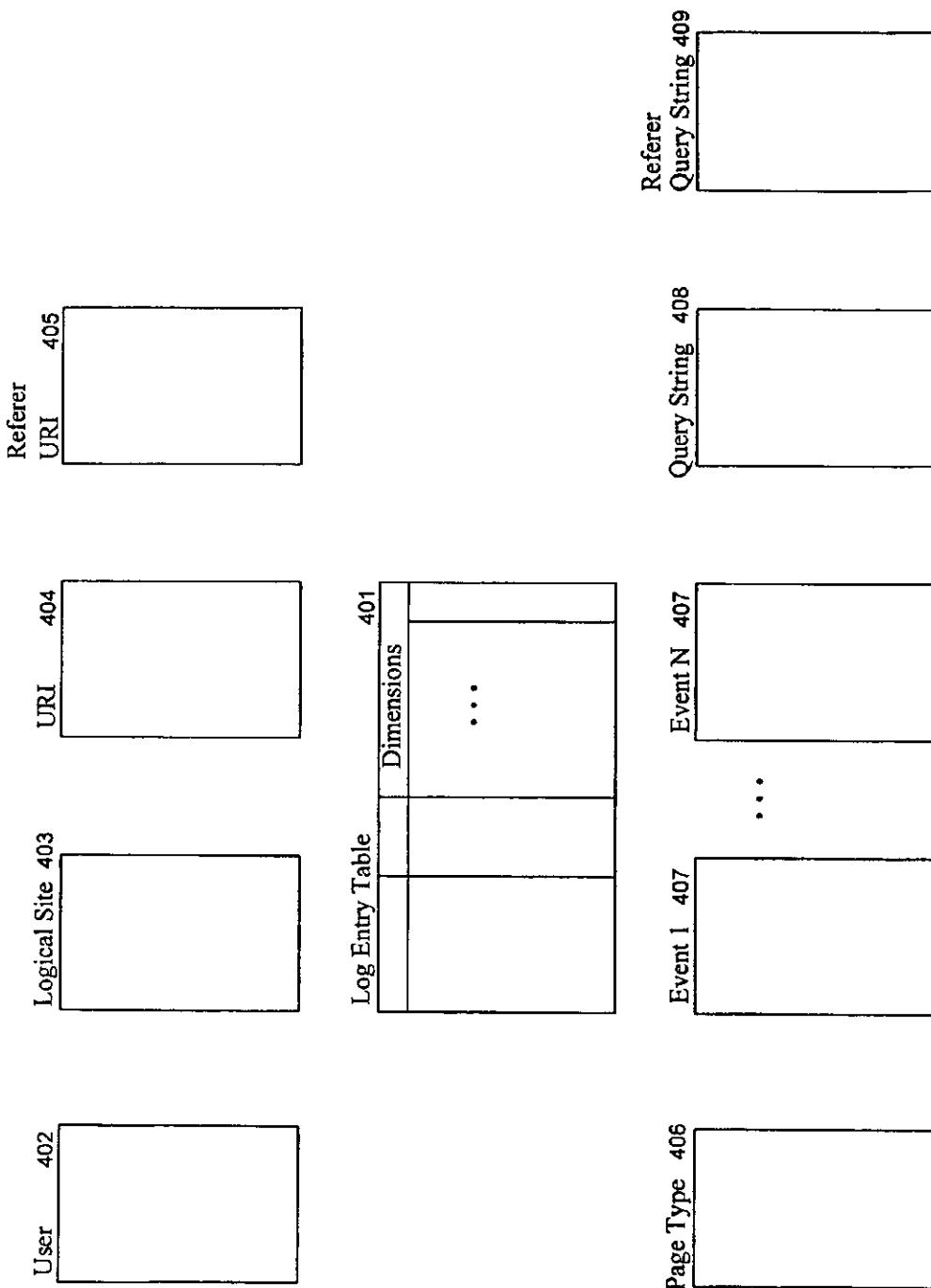


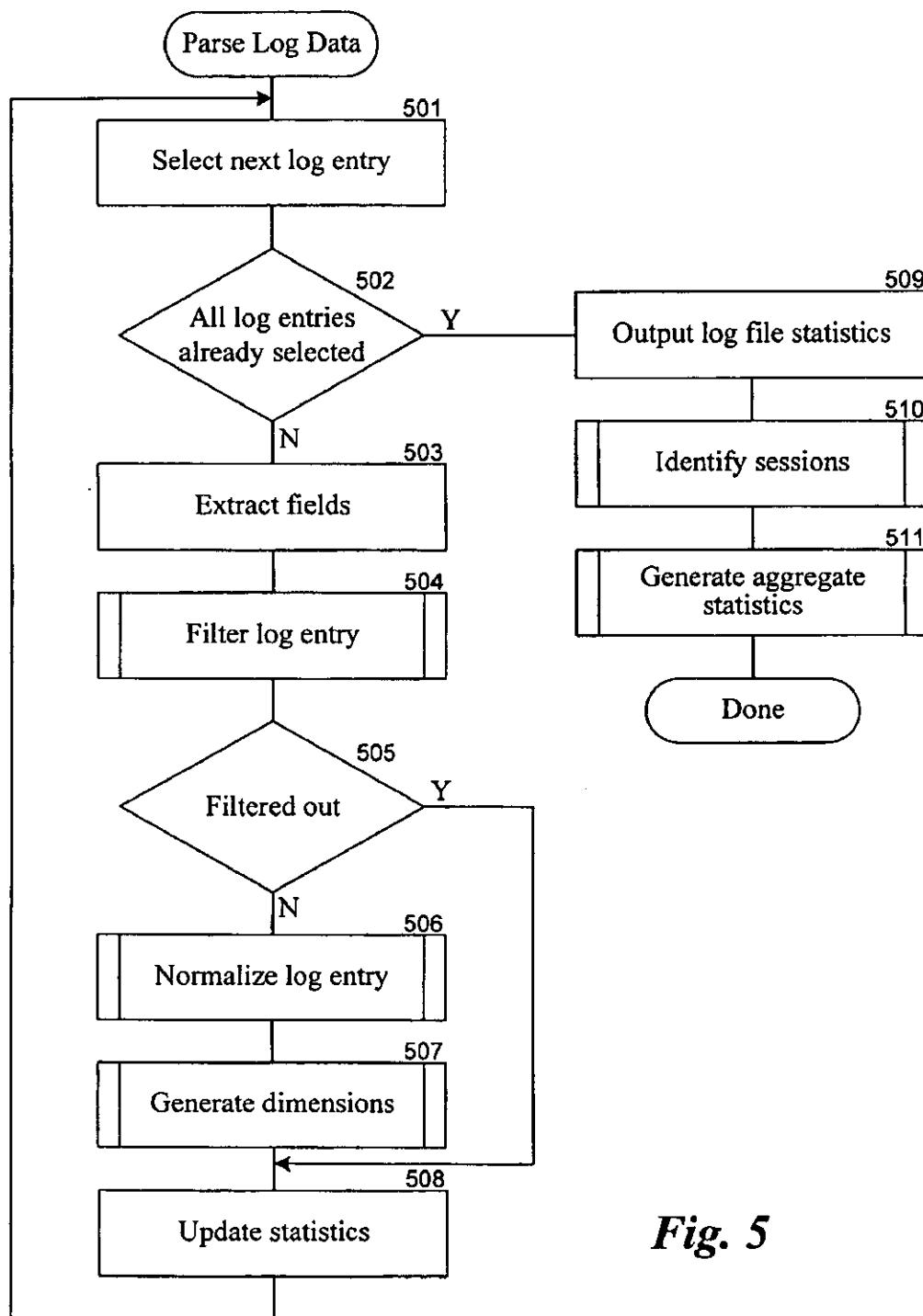
Fig. 4

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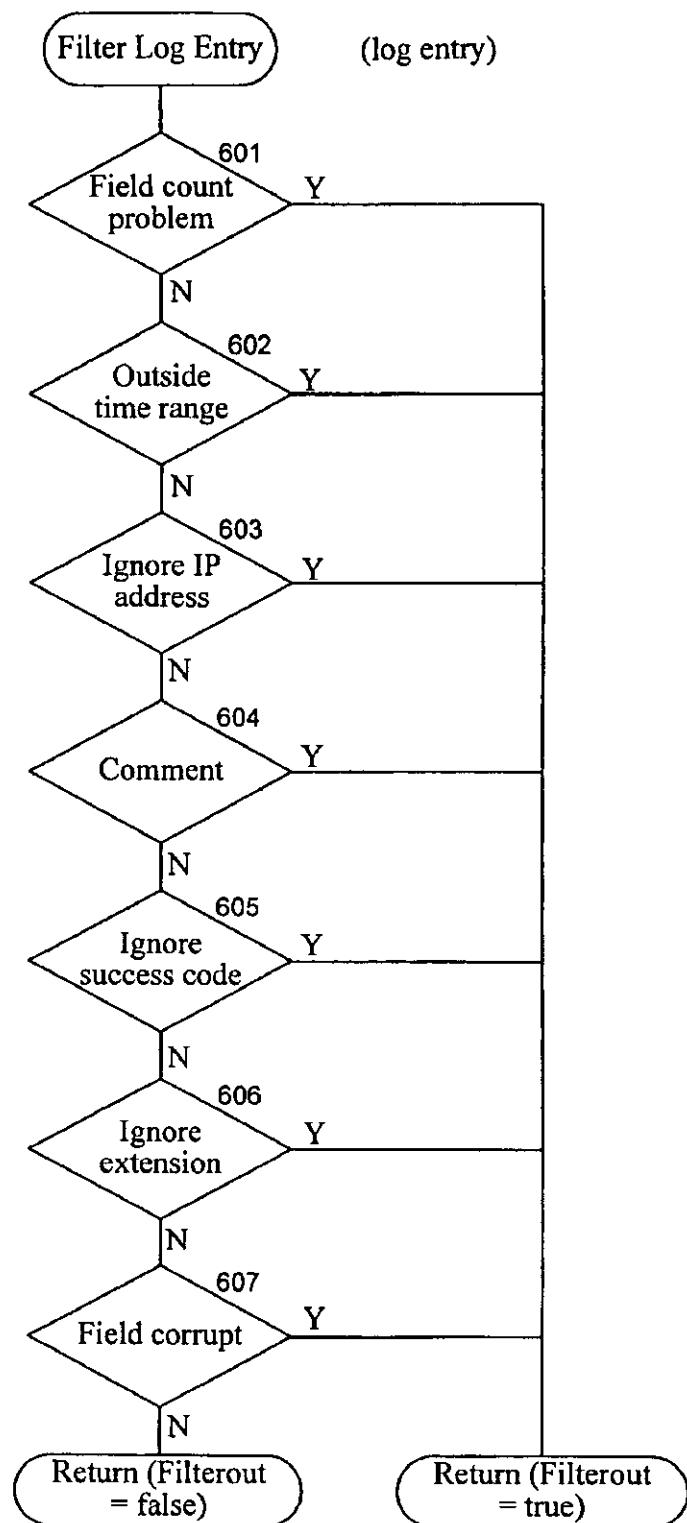
**Fig. 5**

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*Fig. 6*

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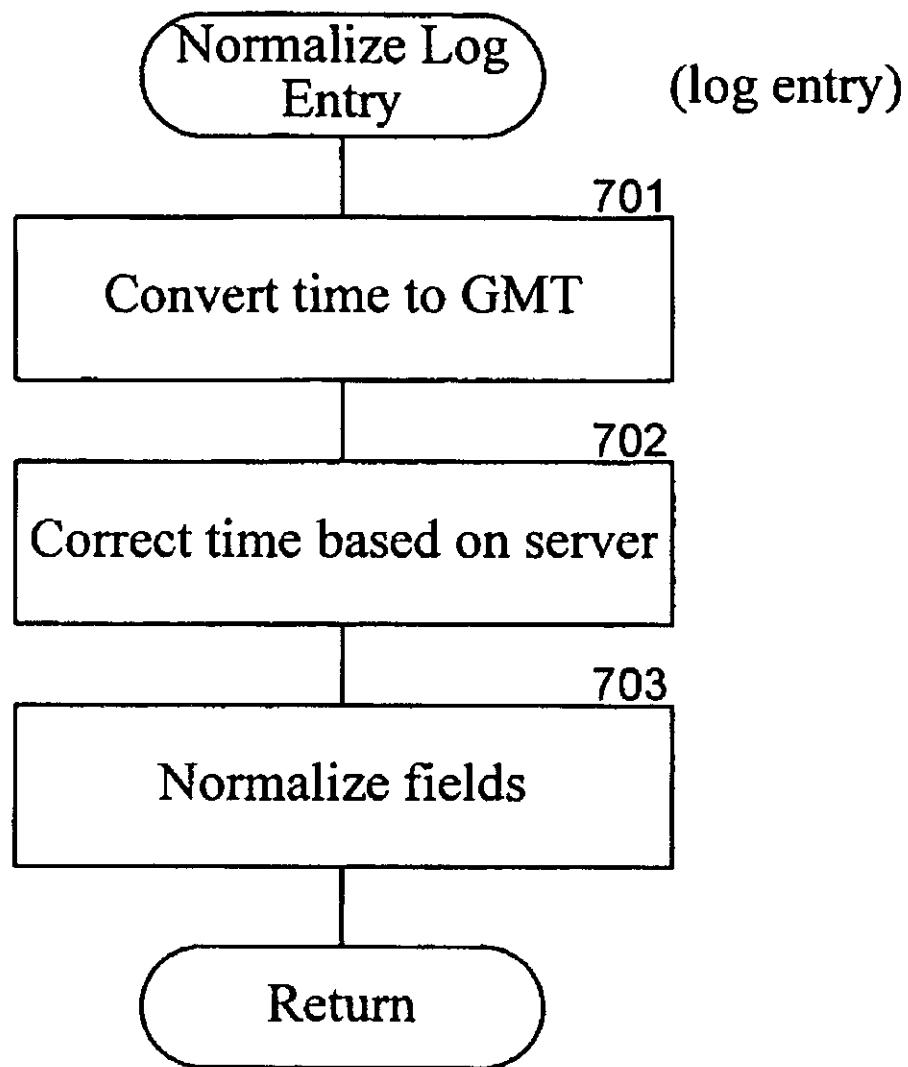


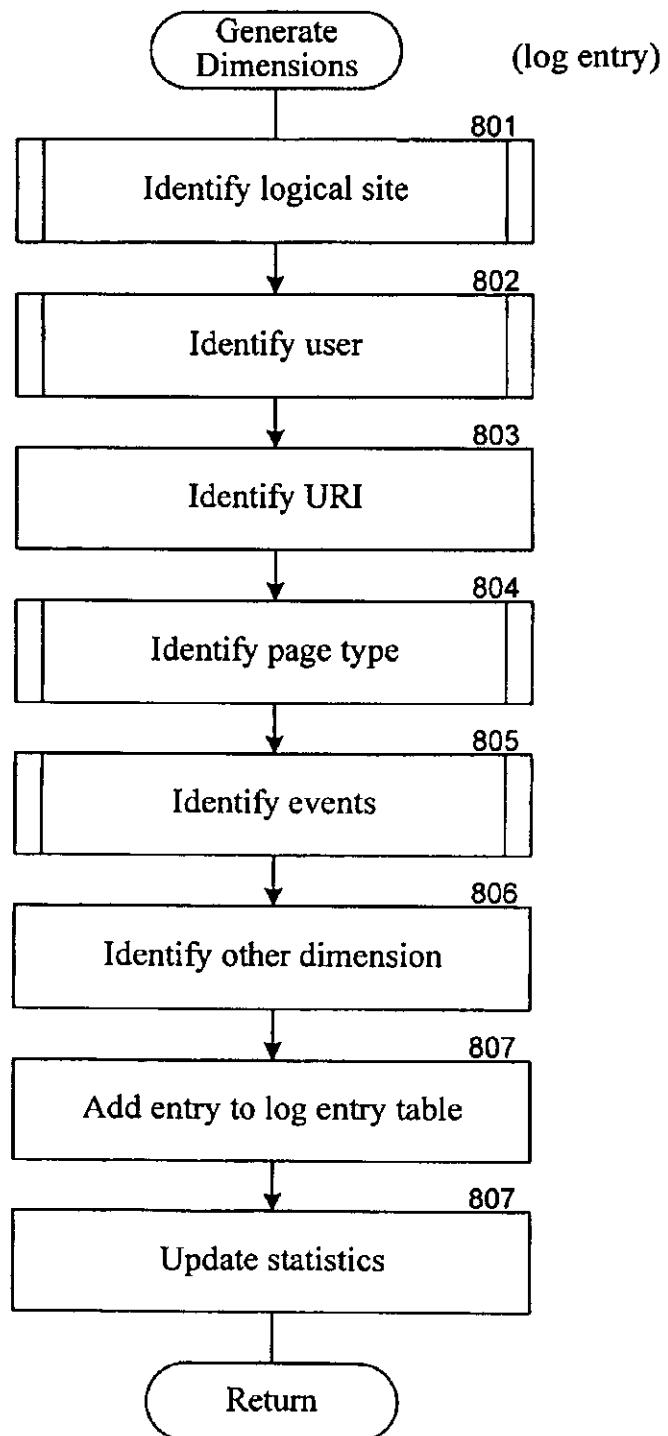
Fig. 7

U.S. Patent

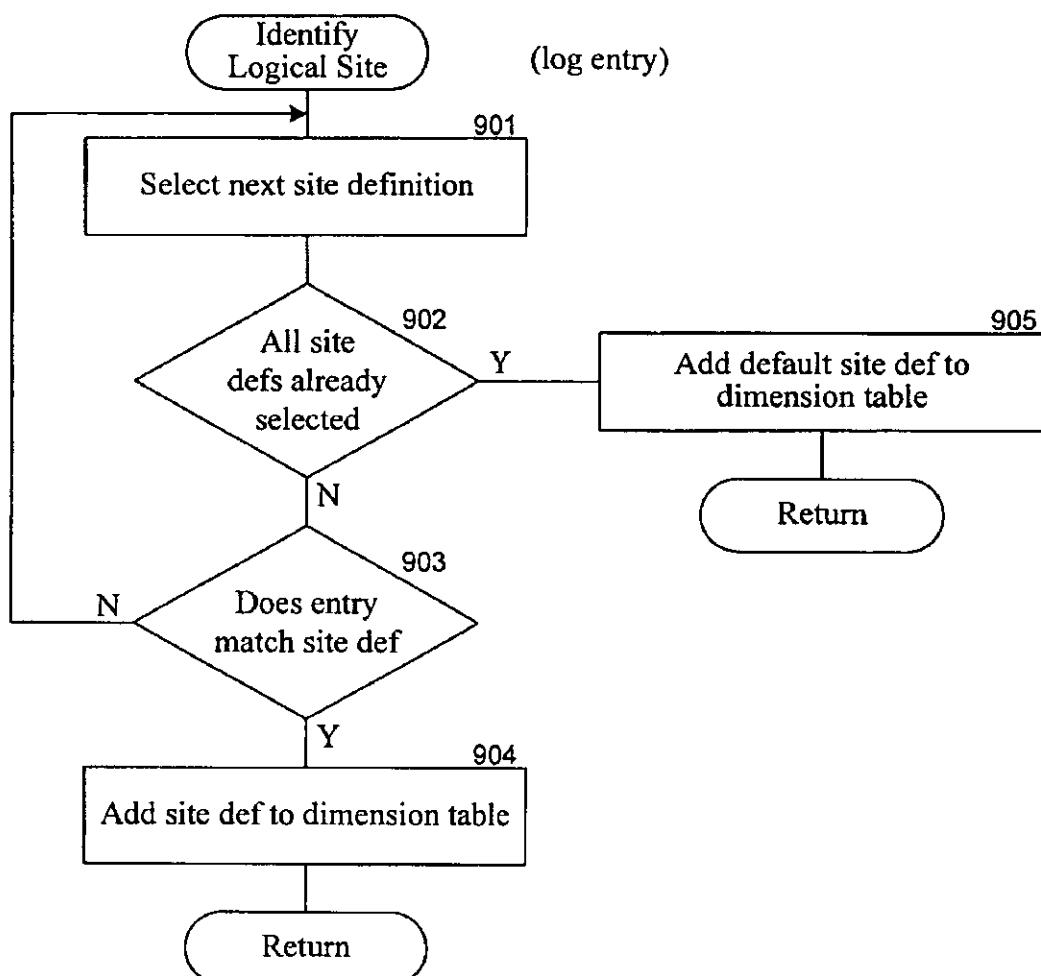
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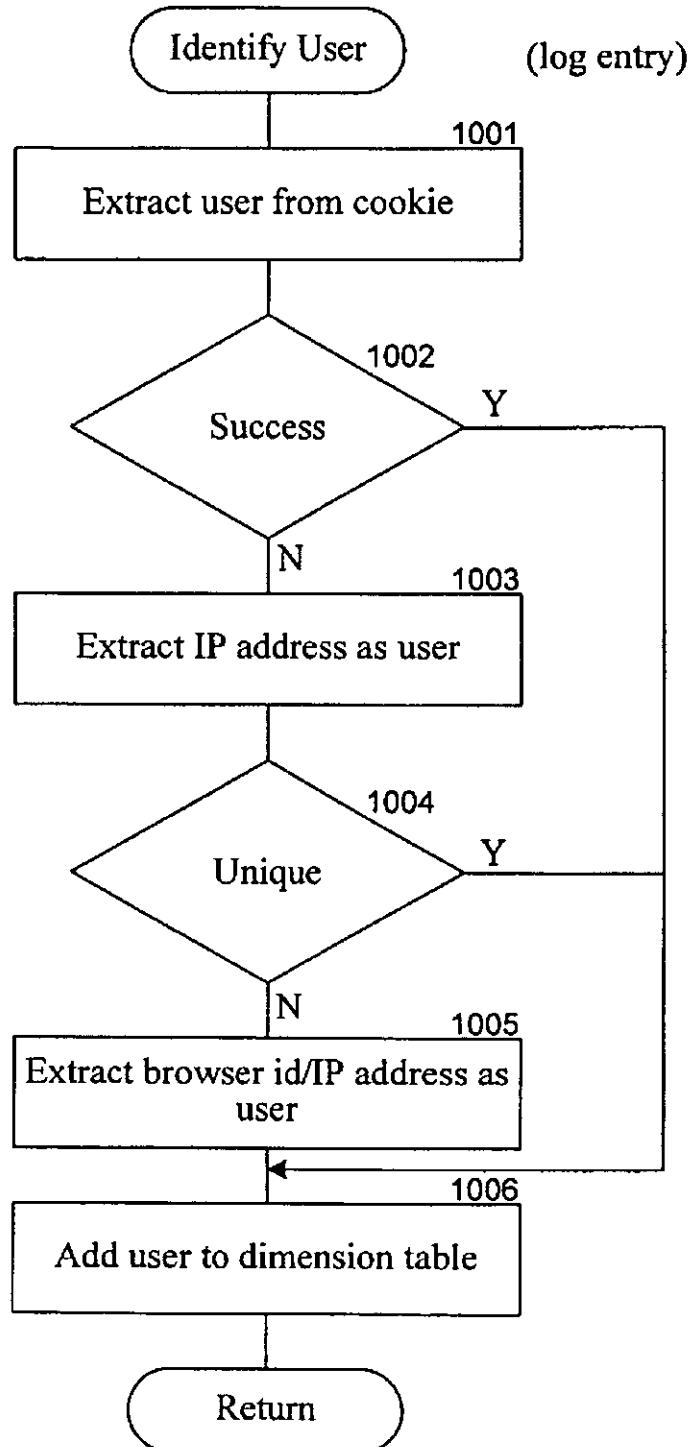
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***Fig. 8***

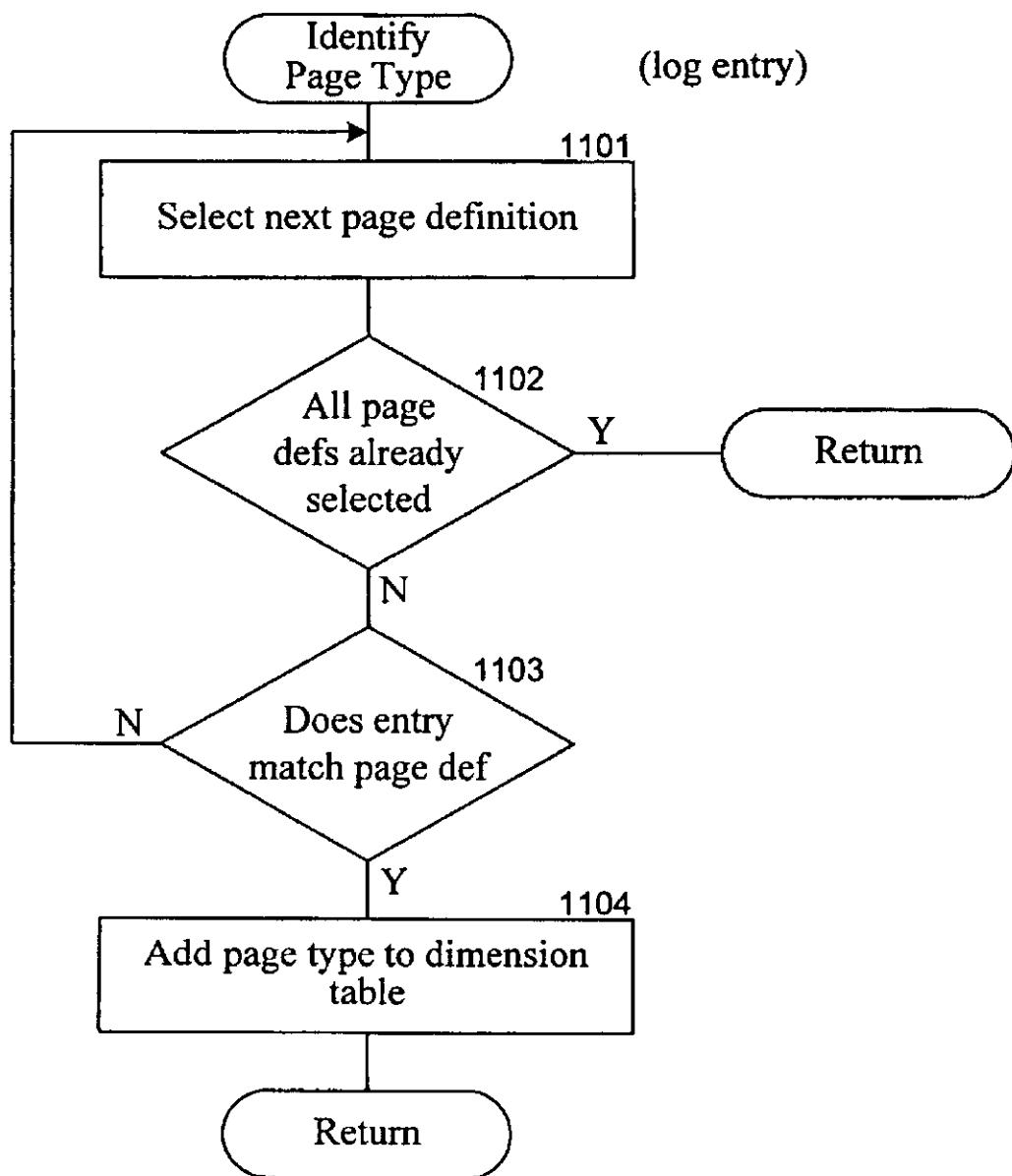
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***Fig. 9***

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*Fig. 10*

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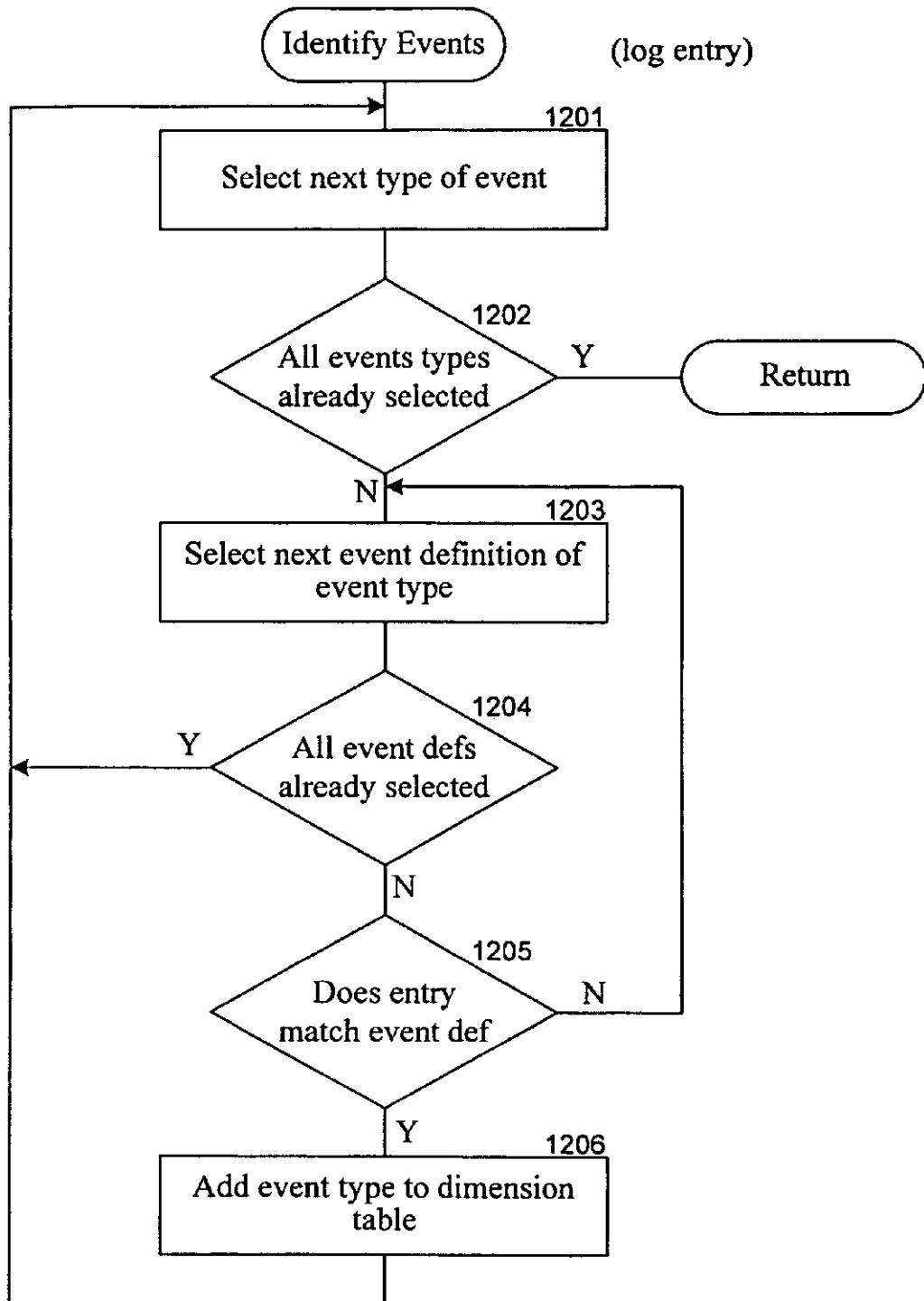
***Fig. 11***

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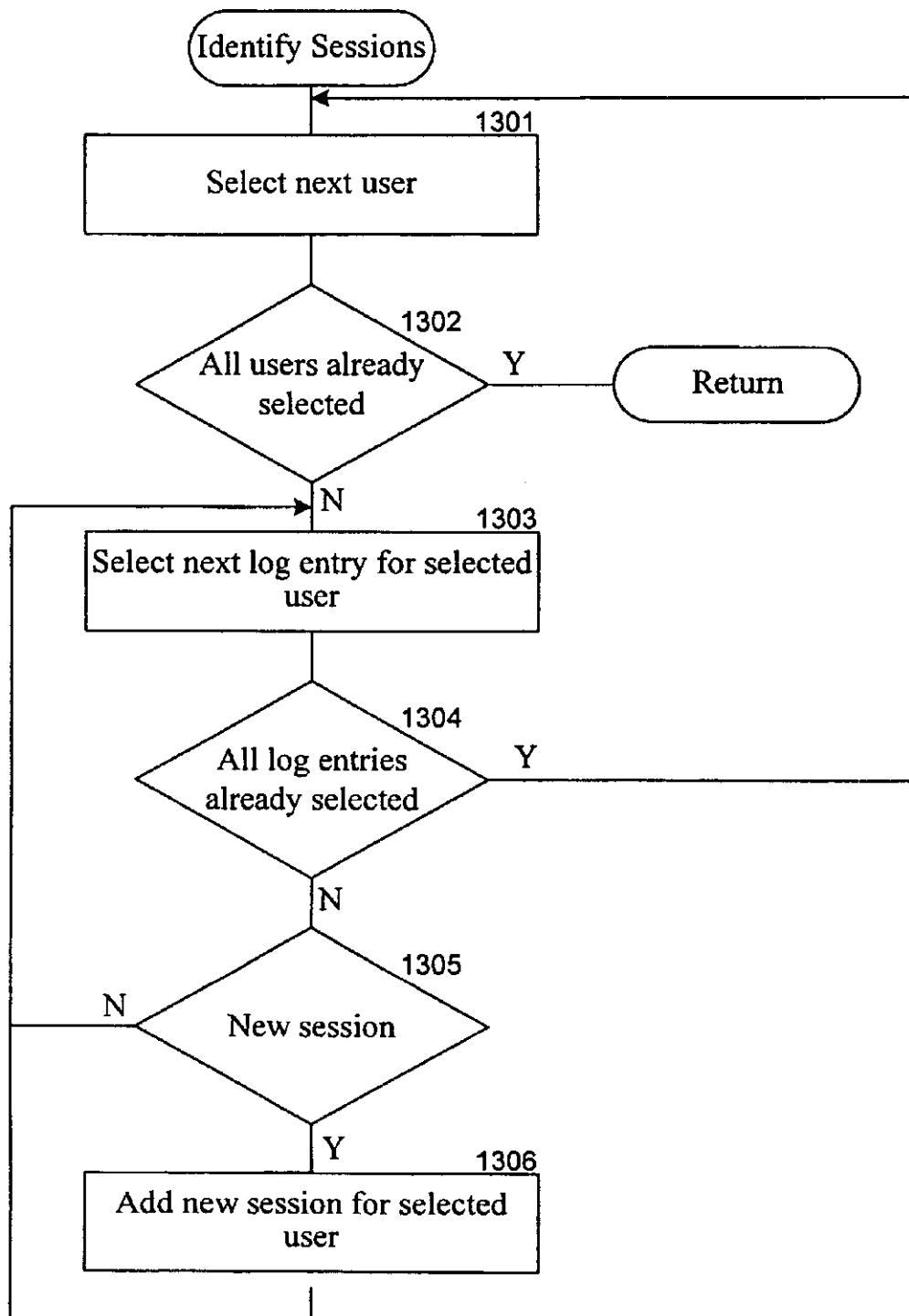
**Fig. 12**

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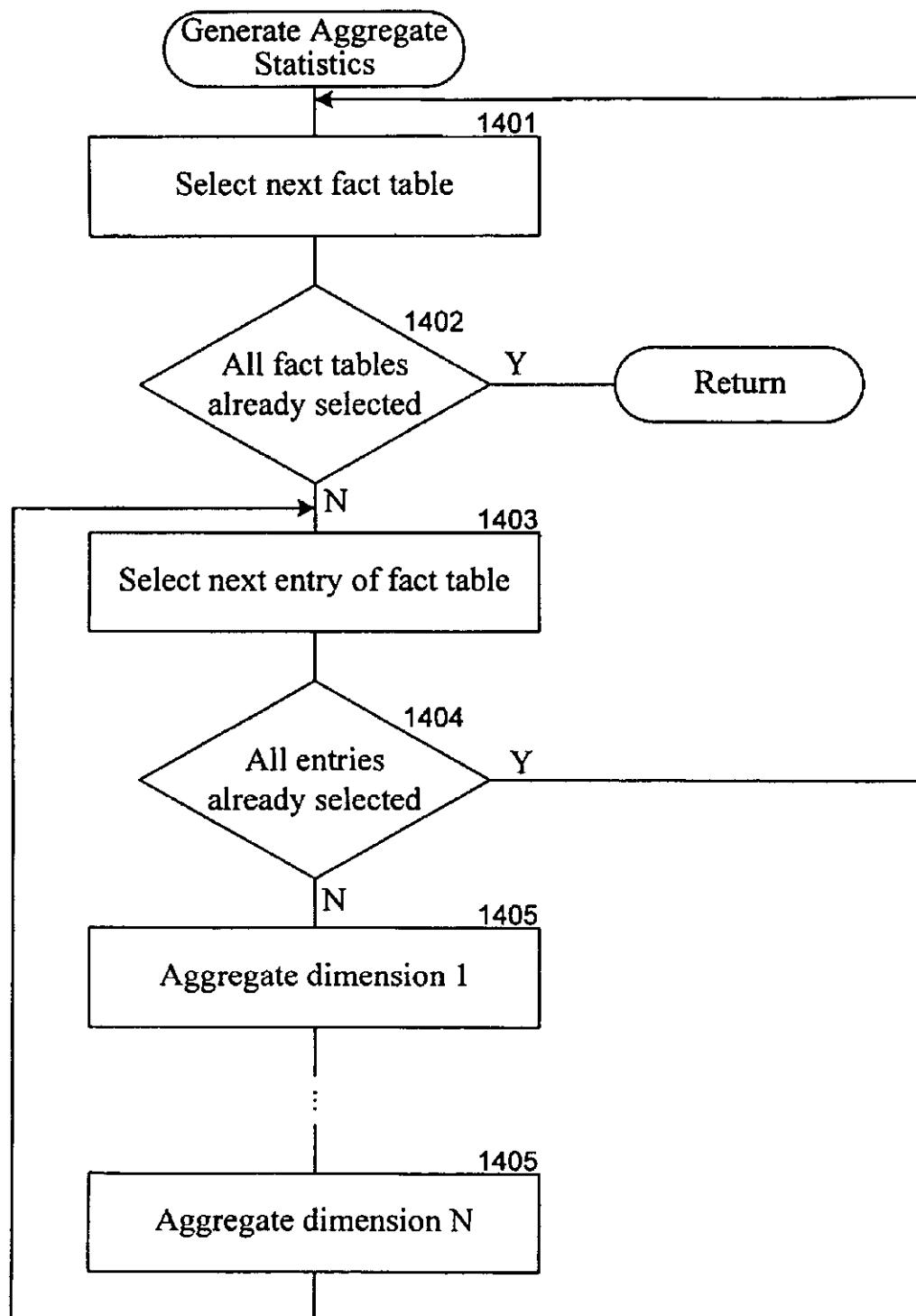
*Fig. 13*

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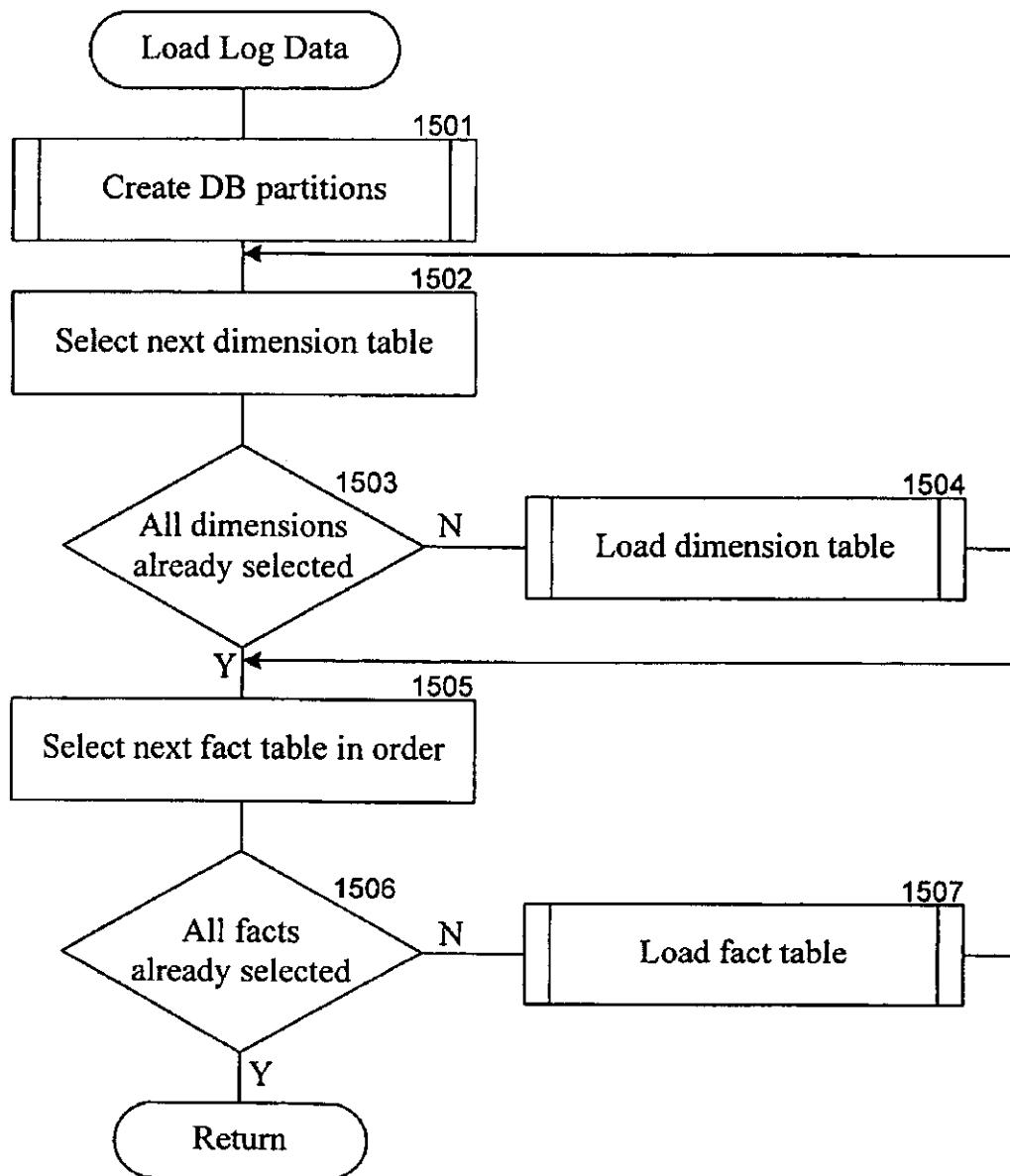
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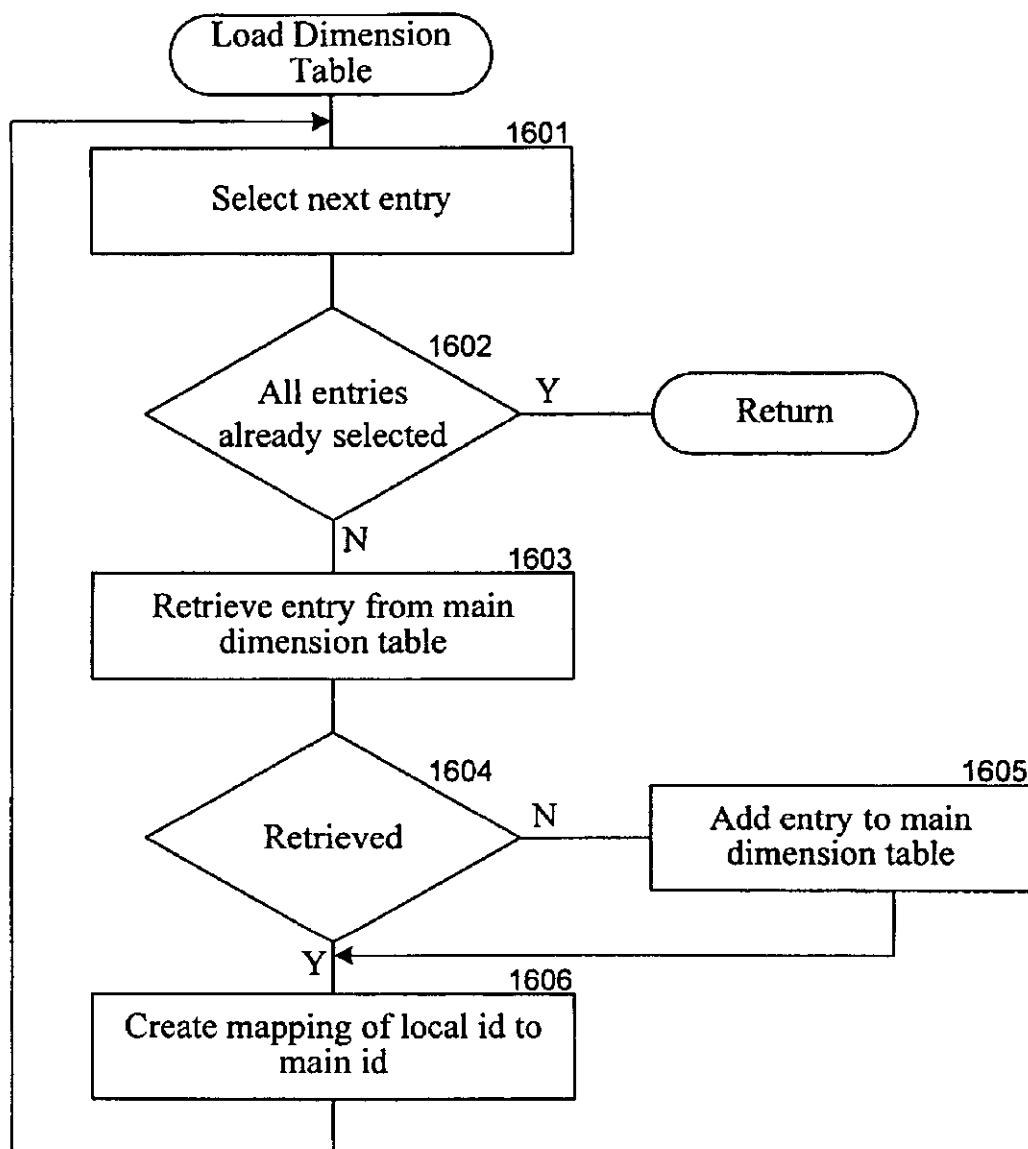
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*Fig. 14*

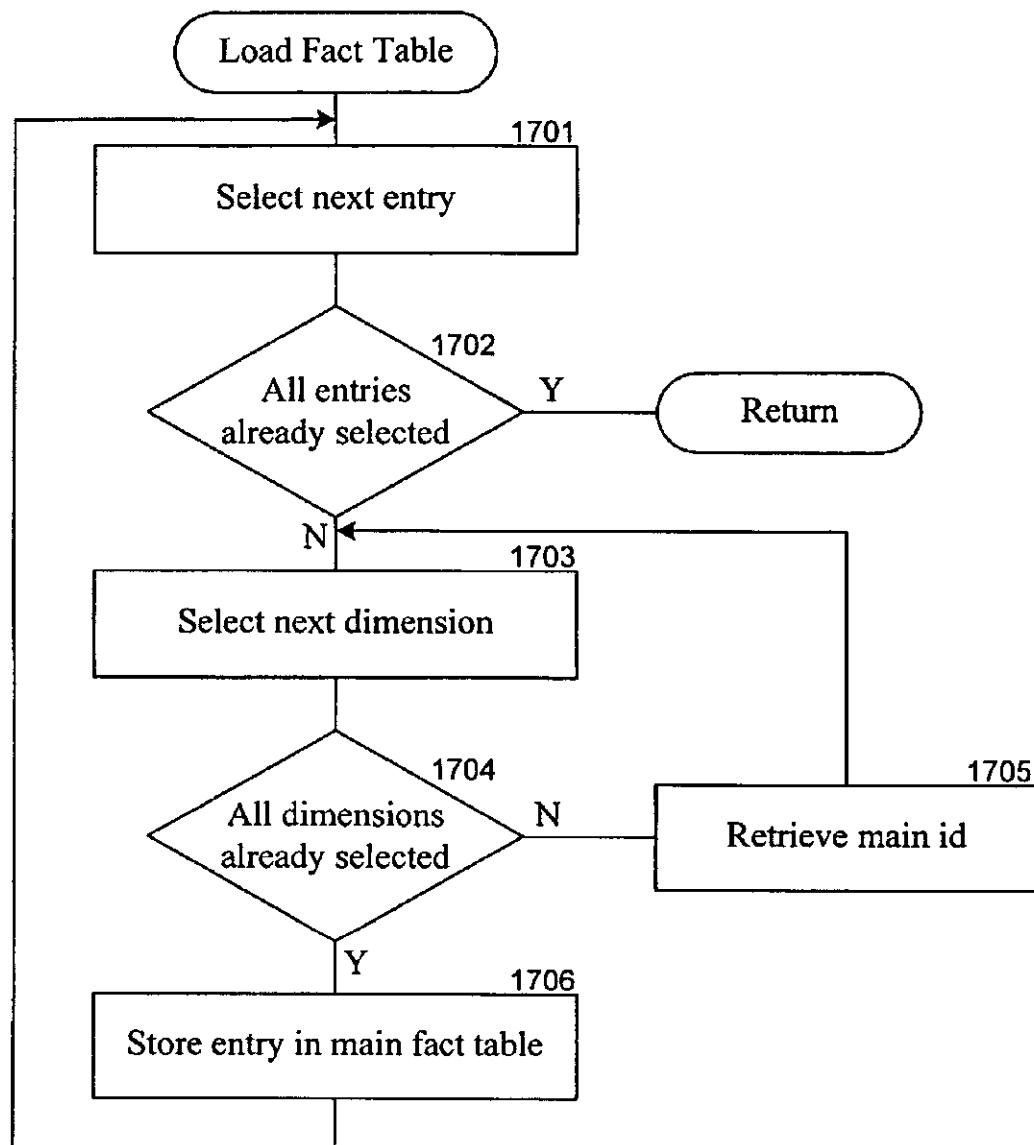
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*Fig. 15*

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*Fig. 16*

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**Fig. 17**

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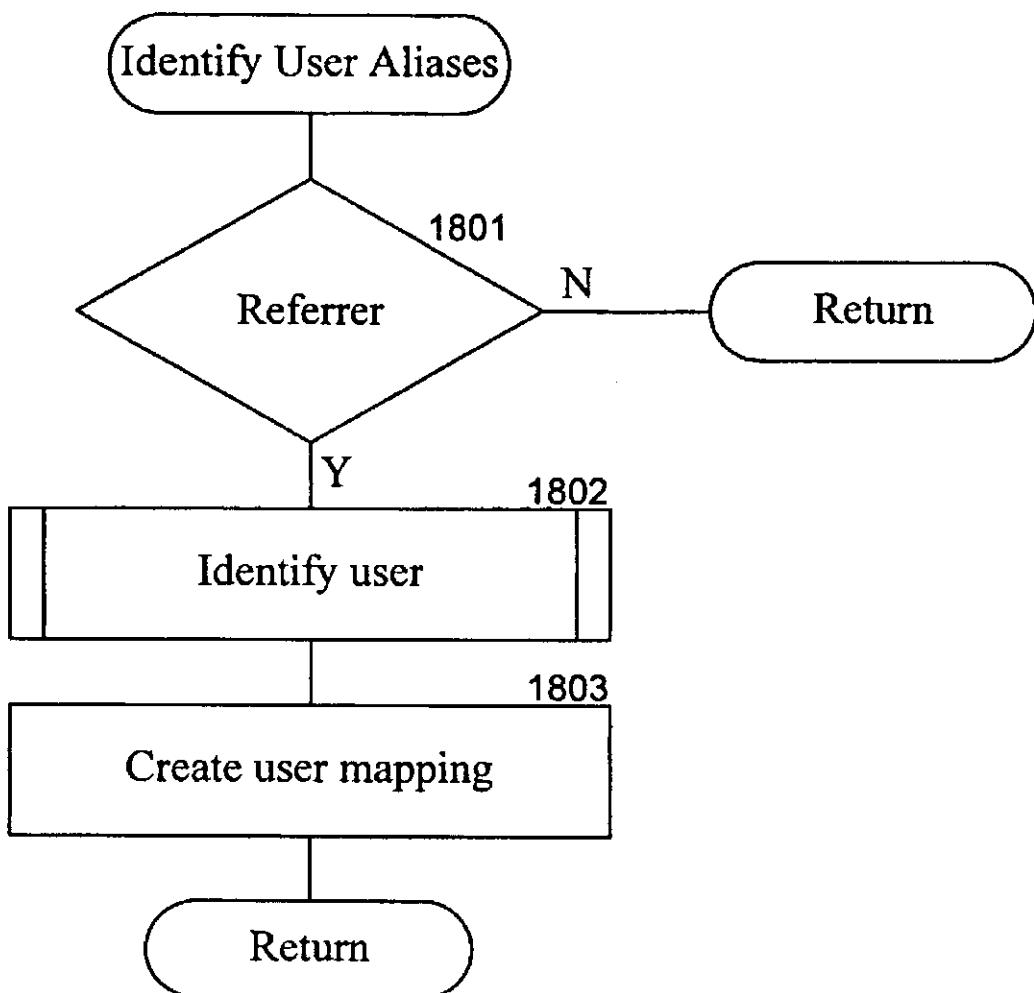


Fig. 18

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Welcome to digiMine

digiMine
Powering your data
for business advantage

1900

MAIN SERVICES COMPANY MEDIA CENTER CUSTOMER LOG IN

1901 1903 1905 1907 1909

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Unlock the Power of Your Data

You need to know more about your customers and about your business and you need to be able to act on that knowledge.

digiMine will uncover valuable business intelligence and enable you to take immediate action by delivering advanced analytics and personalization tools.

digiMine provides you with intuitive reports that have key metrics on customer behavior, site performance, product sales, content consumption, marketing campaign effectiveness, browser to buyer conversion, customer segment identification and much, much more. digiMine's data mining services also deliver predictive applications that give you the ability to personalize web content, cross-sell and up-sell.

Best of all, our application service provider (ASP) model allows us to provide you with an affordable solution that is quick to deploy and easy to use.

Service Benefits

See why digiMine is the best data warehousing and data mining solution for all businesses.

digiMine Careers

Do you have a passion for technology, customer service and a desire to win? If so, check out our current job opportunities.

Contact Us

To request additional information about digiMine, please fill out our Information Request Form.

<http://www.digimine.com/>

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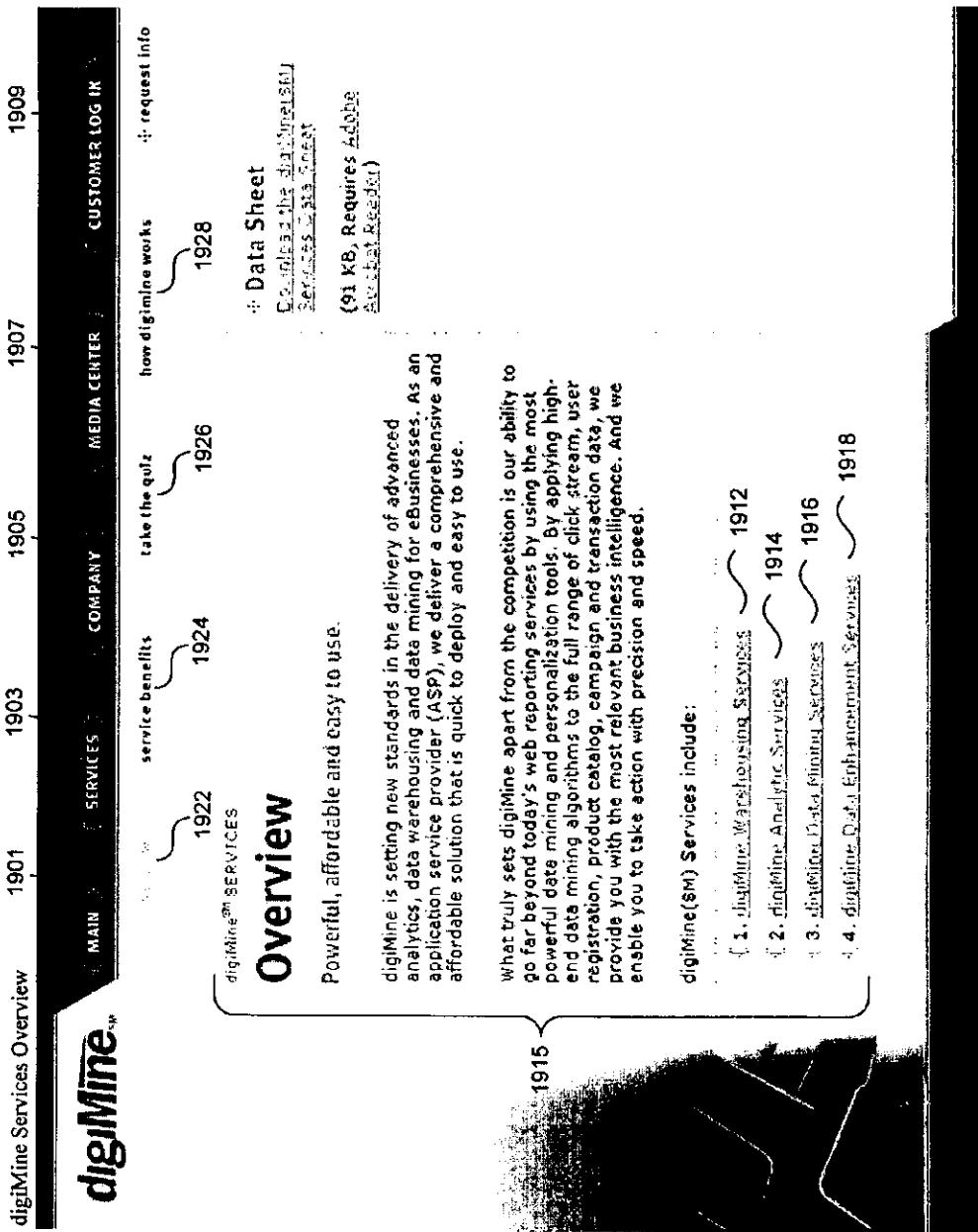
Fig. 19A

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**Fig. 19B**

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digimine Warehousing Services Overview

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digimine SERVICES service benefits take the quiz how digimine works 

digimine Warehousing Services

Overview

digimine Warehousing Services

Building a comprehensive data warehouse is the first fundamental step in creating strong analytics and personalization. digimine will take your data from multiple sources including click stream, transaction, product, campaign and user profiles to create a robust data asset.

Our scalable data warehousing infrastructure enables us to build large warehouses that are capable of holding data for the most data intensive businesses, even those as big as the Media Metrix top 50.

1. digimine Warehousing Services
 2. digimine Analytic Services 
 3. digimine Data Mining Services
 4. digimine Data Enhancement Services



<http://www.digimine.com/services/warehousing.htm>  1920

Fig. 19C

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digimine™ Analytic Services Overview

MAIN **SERVICES** **COMPANY** **MEDIA CENTER** **CUSTOMER LOG IN**

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digimine™ Analytic Services

We provide advanced analytics to you through intuitive, interactive and customizable reports. You can quickly get a top-level view of your customers or you can drill down to specifics 24 hours a day, 365 days a year. We provide you with reports that are relevant and enable you to take action with confidence. Our reports include analytics on:

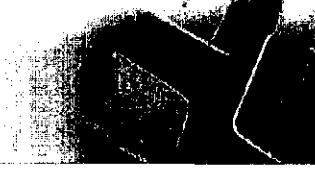
Site Usage
Traffic, Referral, path analysis, key words

Integrated Marketing Campaign Analysis
Online advertising, e-mail, affinity and loyalty programs

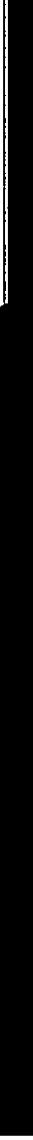
Customer Analysis
Demographic, psychographic, recency and frequency

User Action Analysis
RFQ, registration, auction

Shopping Cart Analysis
Conversion and abandonment



1. digimine™ Webhouse Solutions
2. digimine™ Analytic Services
3. digimine™ Data Mining Services
4. digimine™ Data Enhancement Services



<http://www.digimine.com/services/analytic.htm>

Fig. 19D

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digIMine Data Mining Services Overview

digIMine TM

MAIN SERVICES COMPANY MEDIA CENTER CUSTOMER LOG IN

service benefits [take the quiz](#) [how digIMine works](#) [request info](#)

digIMine SERVICES

digIMine Data Mining Services

digIMine applies advanced data mining algorithms to provide you with the most powerful analytics available. Our algorithms identify patterns in the data that can deliver new insight into your customers. These analytics, coupled with our interactive reporting interface, give you the intelligence you need to make timely decisions with confidence.

Personalization

- Cross-sell and Upsell
- Churn management
- Affinity Analysis - Product, Content, Event
- Customer Segmentation

digIMine Data Mining Services

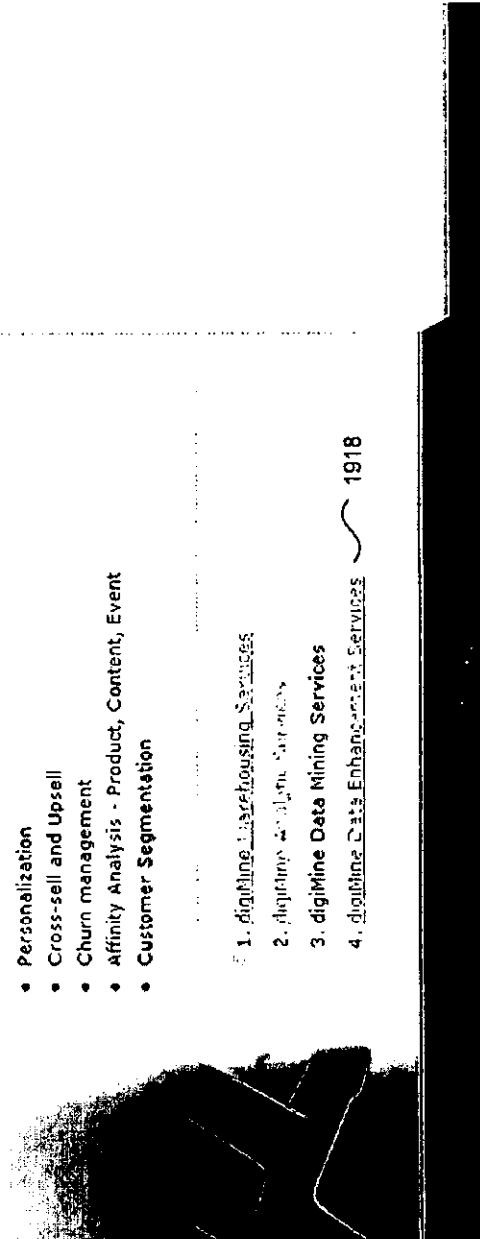
1. digIMine Warehousing Services

2. digIMine Analytics Services

3. digIMine Data Mining Services

4. digIMine Data Enhancement Services

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<http://www.digimine.com/services/mining.htm>

Fig. 19E

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digiMine Data Enhancement Services Overview

digiMine™ MAIN SERVICES COMPANY MEDIA CENTER CUSTOMER LOG IN

service benefits [take the quiz](#) [how digimine works](#) [request info](#)

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digiMine™ Data Enhancement Services

digiMine™ Data Enhancement Services are helpful tools that make your data more valuable and more usable. These services can also help you reduce marketing costs by correcting addresses and eliminating duplicates.

digiMine™ Address Validation/Correction - digimine can validate and correct customer addresses using information from the USPS, digimine's address validation and correction services include: National Change of Address (NCOA), Locatable Address Correction Service (LACS), and Delivery Sequence File (DSF) processing.*

digiMine™ Merge/Purge - digimine can also merge lists and purge duplicates. This service enables you to eliminate duplicate records and records that map to the same address (householding).

* NCOA, LACS and DSF are trademarks of the United States Postal Service

1. digimine™ Residential Services
2. digimine™ Analytics Services
3. digimine™ Data Mining Services
4. digimine™ Data Enhancement Services

Fig. 19F

<http://www.digimine.com/services/enhancement.htm>

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digimine Service Benefits

digimine

MAIN	SERVICES	COMPANY	MEDIA CENTER	CUSTOMER LOG IN
Overview	take the quiz	take the quiz	How digimine works	Request Info

Service Benefits

1926

digimine(SM) Services make understanding your customers and your business easy. And we alleviate the frustrations associated with deploying and using a home-grown data warehousing and data mining solution.

1930

digimine offers the fastest time to deployment as little as 2 weeks.

Powerful data mining tools

Our data mining-powered reports provide you with unparalleled intelligence. We give you the tools to enable personalization that precisely targets content and maximizes up-sell and cross-sell opportunities.

Easy to use

digimine(SM) Reporting Services are intuitive and organized to deliver relevant insight instantly. Our interactive reports allow you to customize the view of your analytics.

A comprehensive data asset

digimine builds a robust, scalable and secure data warehouse for you that combines the full range of clickstream, user-registration, product, campaign and transaction data.

Quick to deploy

digimine offers fast time-to-deployment. In fact, a typical installation allows us to setup and begin daily reporting within a few days. In many cases, customers begin to realize the value of digimine(SM) Services in as little as 24 hours.

Affordable

Our web-based ASP model allows us to deliver a powerful, high-end service that is both efficient and affordable. Setup costs are minimal and do not require additional IT resources. A monthly fee covers all expenses related to hardware, software, operations and reporting.

<http://www.digimine.com/services/servicebenefits.htm>

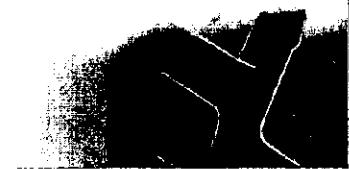


Fig. 19G

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Powering your data for business advantage™

digMine®

Unlock the Power of Your Data

Overview

Like the most businesses, you are generating huge volumes of valuable data - data that can reveal the likes and dislikes of current and potential customers about your products, services and web site. Do you have the infrastructure and tools in place to turn your data into actionable business intelligence?

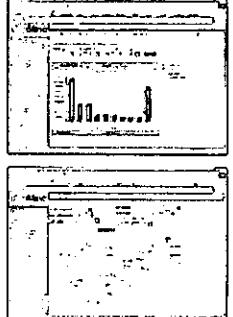
digMine, Inc. is setting new standards in the delivery of powerful analytics and personalization for e-business. Our data mining services provide you with intelligence reports to understand customer behavior, marketing campaign effectiveness, sales trends, browser-to-conversion, customer segmentation and much more. digMine's data mining services also deliver predictive applications that give you the ability to personalize web content, cross-sell and up-sell.

digMine is the only true ASP (application service provider) for sophisticated data warehousing and data mining solutions. We go far beyond today's web-reporting packages by building a comprehensive data warehouse and by applying data mining tools to the full range of click streams, user registration, product catalog, campaign and transaction data. And our ASP model enables us to provide you with an affordable solution that is quick to deploy and easy to use.

Service Benefits

Powerful data mining tools
Our data mining-powered reports provide you with unparalleled intelligence. We give you the tools you need to enable personalization that precisely targets content and maximizes up-sell and cross-sell opportunities.

Comprehensive data asset
We take your multiple sources of data and build a robust data warehouse for you - a fundamental step in extracting the greatest value from your data. Our scalable data warehousing infrastructure enables us to build customer specific warehouses that are capable of holding data for the most data intensive businesses.



digMine, Inc.'s reports provide actionable insight into customer behavior.

Do you know enough about your customers?

- How many customers came to your site yesterday?
- How many were first time visitors?
- Can you get a list of those new customers and send them a personalized thank you the next day?
- What are the top 10 most visited product areas on your site?
- What products should you consider making "top sellers" to attract new customers?
- What are your top ten selling products or services? Have they changed in the last month?
- How many shoppers go through your homepage per session?
- Which marketing promotions are most effective at drawing new customers to your site?
- Which customers are likely to "return" and which are loyal shoppers on your site?
- What is the expected "lifetime value" of your customer?

How many of these questions can you answer today? You're not alone. If you can only answer a few. With digMine, you will be able to answer these questions and more.

Fig. 19H

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Affordable

Our web-based ASP model allows us to deliver a powerful, high-end service that is efficient and affordable. Set-up costs are minimal and do not require additional IT resources. Fixed monthly fees cover all expenses related to hardware, software, operations and reporting.

Easy-to-use

digIMine™ Reporting Services are intuitive and organized to deliver relevant insight instantly. Our interactive reports allow you to customize your view of your analytics. And you don't have to be a statistician to understand your data.

Quick to deploy

digIMine offers the fastest time to deployment. In fact, a typical installation allows us to setup and begin daily reporting within a few days. In many cases, our customers have full analytics in less than 24 hours.

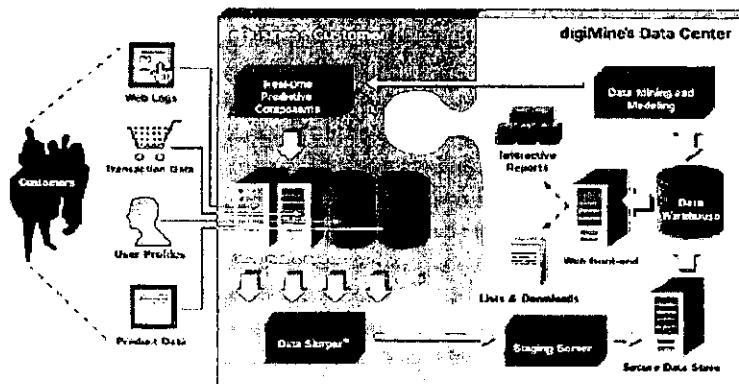
How digIMine Works

digIMine™ Services do not require you to invest in additional IT resources, nor do we require you to deploy data tags. We simply install a digIMine Slurper™ at your data center that encrypts and compresses your data for transmission at pre-determined times. digIMine's Slurper™ is a simple piece of software that has the ability to pull web server logs and gather data from any OLE-DB-compliant database - from Oracle, SQL, DB2 and others. This process does not compromise your network security or require you to open your firewall.

Once your data is transferred to digIMine's data center, it is parsed, cleaned and loaded into a secure data warehouse.

digIMine then produces detailed and accurate reports that are delivered 24 hours a day, 7 days a week, 365 days a year. You can access your reports through a dedicated https connection using a standard browser. The reports are completely secure and require user authentication. In fact, as an administrator, you have the ability to set various levels of access permission for different business users in your company. Your data is also made available for export.

digIMine provides data mining services for predictive applications. These predictive components give you the ability to personalize web content and cross-sell or up-sell products. Data mining components run in real-time on your web site or in batch applications, such as targeted e-mail.



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11250 Kirkland Way
Kirkland, WA 98033
Tel: 425 896 1700
Fax: 425 896 1777
www.digIMine.com

Fig. 19I

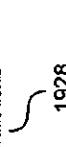
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digimine Services: Take the Quiz

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 overview service benefits  

digimine SERVICES

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Take the Quiz

With the abundance of sites on the Internet today, it's hard to get customers and keep them. Let's face it, if within 20 seconds your visitors are not presented with the specific content or list of products they're interested in, then there's little chance they'll return again.

How many of these questions can you answer today? You're not alone if you can only answer a few. With digimine, you will be able to answer all of these questions and more.

How many customers came to your site yesterday?
 How many were first time visitors?
 Can you get a list of those new customers and send them a thank you the next day?
 What are most visited products areas on your site?
 What product is should you consider making "loss leaders" to attract new customers?
 What are your top selling products or services? Have they changed in the last month?
 How many shoppers go through your home page?
 Which marketing promotions are most effective at driving new customers to your site?
 Which customers are likely to "churn" and which are loyal shoppers on your site?
 What is the expected "life time value" of your customers?



<http://www.digimine.com/services/quiz.htm>

Fig. 19J

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How digiMine Works

digiMine

digiMine™ SERVICES

MAIN SERVICES COMPANY MEDIA CENTER CUSTOMER LOG IN

overview service benefits take the quiz 



How digiMine Works

 **digiMine's Data Slurper™**

digiMine's Data Slurper™ is a simple software application that pulls web server logs and gathers data from any commercial database - with no impact on your IT department.

 **Data Sheet**

Once your data is transferred to digiMine's data center, it is parsed, cleaned and loaded into a secure data warehouse. We can also merge, purge, validate and correct your data.

We then apply data mining to produce insightful analytics. These analytics are generated and delivered to you through interactive reports and downloadable lists that are available 24 hours a day, 365 days a year. You can access your reports through a dedicated and secure connection using a standard browser.

Real-time data mining components (executables called from java or asp) are run independently of the digiMine data center to avoid any impact on site performance. These can be run in real-time on your web site or in batch applications such as targeted email.

<http://www.digimine.com/services/howworks.htm>

Fig. 19K

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digiMine Company Information

MAIN **SERVICES** **COMPANY** **MEDIA CENTER** **CUSTOMER LOG IN**

our vision management customers careers contact us

1931 1933 1935 1937 1939

COMPANY

Our Mission

digiMine's mission is to create value for all e-businesses by making data warehousing and data mining a practical reality.

digiMine was born from the experience of our three founders, Nick Besbeas, Usama Fayyad and Bassel Ojeih. All three Microsoft veterans come from different disciplines — direct marketing, data mining, and data warehouse operations.

Through their experience, they realized that the benefits of data warehousing and data mining delivered as a service, would enable e-businesses to derive the most value from their data for increased competitive advantage.

[management >](#)



<http://www.digimine.com/company/>

Fig. 19L

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digIMine Company Information Management

digIMine

MAIN SERVICES COMPANY MEDIA CENTER CUSTOMER LOG IN

OUR MISSION: customers careers contact us

COMPANY

Management

digIMine's executive team brings unparalleled expertise in commerce site development, data warehousing, data mining and web/database marketing.

Executive Team:

Irenem Litzky ~ 1941
President & CEO, co-founder

Niki Sachars ~ 1943
Executive VP Sales and Marketing, co-founder

Bessel Olich ~ 1945
COO, co-founder

Martin E. Yerushik ~ 1947
Chief Financial Officer

Bob Balashoff ~ 1949
Vice President of Legal Affairs

Investors:

Mayfield Fund
Second Avenue Fund
Cedar Grove Investments (Amazon.com, LoudEye, PhotoDio)
Kelllett Investments (InfoSpace.com, MCI WorldCom, evite.com, CoinStar, msnis.com, gear.com, Virtual Bank)
Sam Jeddah (Managing Director, Internet Capital Group; former Nickelsoft Vice President)
Robert Polian (Managing Director, Internet Capital Group)
James Walker (former NextLink CEO)
Deutsche Bank Technology Fund (internet, financials, and telecom funder)
Silicon Valley Angels (involved in hottest early-stage companies today)



<http://www.digimine.com/company/management.htm>

Fig. 19M

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digimine Executive Bio: Bob Bolan

Management

MAIN SERVICES COMPANY our mission customers careers contact us

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Bob Bolan is chief legal counsel and advises the management team and the board of directors on all legal affairs of the company. From 1994 until joining the company in May of 2000, Bob served as Corporate attorney at Microsoft Corporation where he practiced in a wide variety of corporate matters including intellectual property, licensing, litigation, acquisitions, strategic alliances and business investments. He provided legal services to the Windows Platform Division, the Applications Division, the Microsoft Network, and Microsoft Research Division. Most notably, Bob led the development of the patent portfolio for Microsoft Research in Redmond, Cambridge and China, representing such diverse technologies as speech recognition, natural languages, operating systems, programming languages, cryptography, user interface design, artificial intelligence, graphics, vision, development tools, database and data mining.

From 1988 to 1994, Bob was a Member of Technical Staff at AT&T Bell Laboratories where he developed network features for high-capacity packet switches that formed the signaling infrastructure of the AT&T Interexchange carrier network.

Bob received his J.D. from Capital University (1993) and was honored with membership to Order of the Coif. He also earned a Masters in Computer Science from Purdue (1988) and an Honors Bachelor of Arts in Classical Languages from Xavier University (1978). Bob is a member of the Washington State Bar, the Ohio Bar and is registered to practice before the US Patent and Trademark Office. He is a former law clerk of Judge James Graham of the United States District Court, Southern District of Ohio, and of Judge Alan Norris of the Sixth Circuit Court of Appeals.

<http://www.digimine.com/company/BobBolan.htm>

Fig. 19N

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Fig. 190

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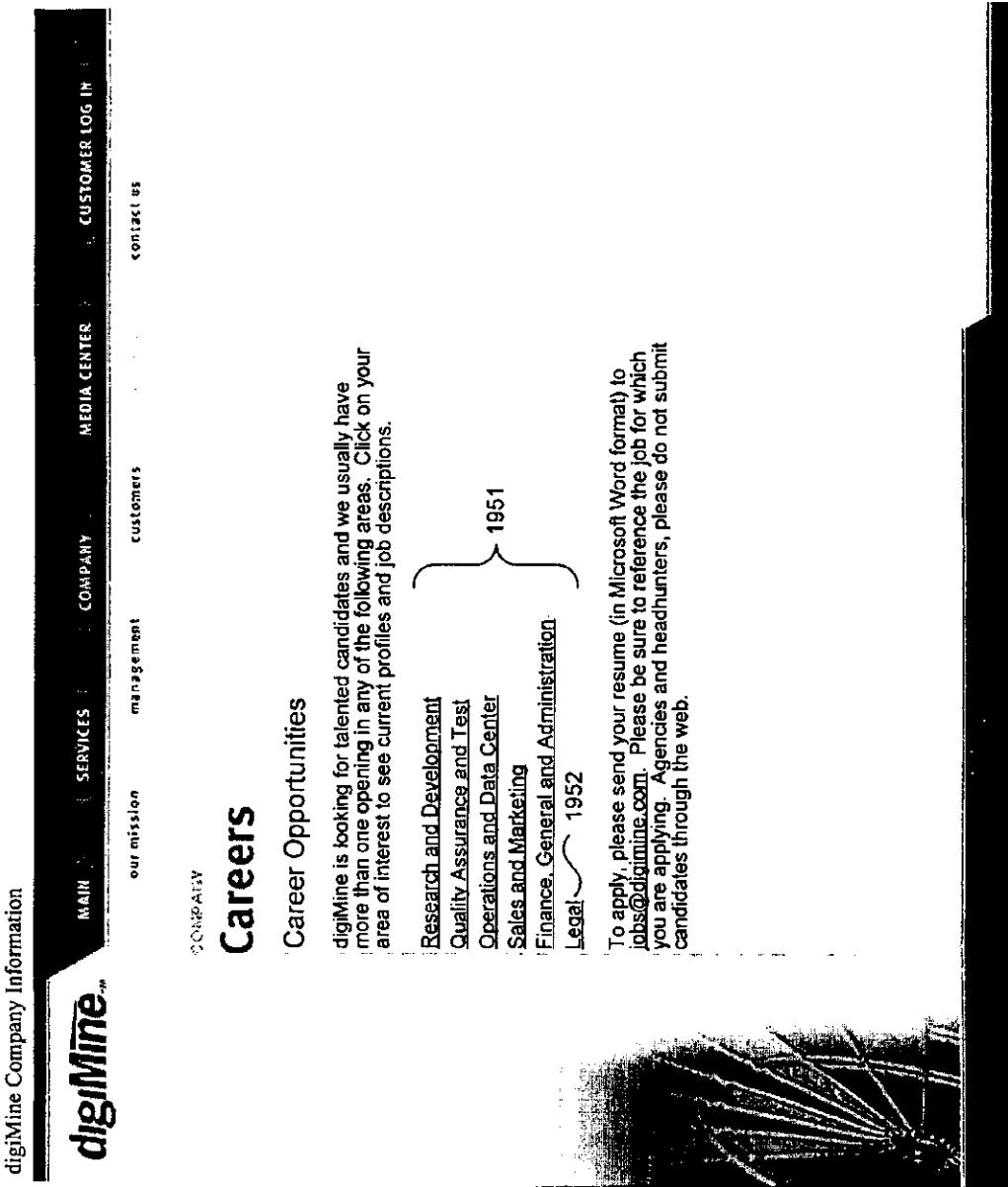


Fig. 19P

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digimine.com

digimine Company Information

MAIN SERVICES COMPANY MEDIA CENTER CUSTOMER LOGIN

our mission management customers contact us

C CAREERS

Careers

Legal Positions

« job categories

Corporate Attorney - Intellectual Property

Responsibilities

- Principal responsibility for management of all patent procurement and conflict matters.
- Review ideas for strategic importance and patent viability.
- Work closely with outside counsel to develop claim scope and prosecution strategy, and supervise them throughout the process.
- Analyze third party patents and determine best resolution, including licensing, product modification and liability studies.
- Counsel development and business clients on patent-related issues.
- Provide support for patent litigation.

Requirements

- Excellent academic credentials.
- 5+ years experience in patents required, including preparing and prosecuting patent applications, opinion work (invalidity/non-infringement), licensing, and/or litigation.
- Significant computer industry experience highly desirable.
- Advanced technical degree a plus



1920

<http://www.digimine.com/company/careers/legal.htm>

Fig. 19Q

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digiMine Media Page

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in the news press releases

1955 1959

seamless  **digiMine wants to turn data into gold**

The algorithms and data-mining software created by Usama Fayyad have been used to find volcanoes on Venus and galaxies far, far away. Now the former scientist at NASA's Jet Propulsion Lab is using that same technology to create digiMine... [»](#)

Press Inquiries

Please direct all press related inquiries to [Press Inquiries](#).

the ~~sixth annual USA industry achievement awards~~ **FINALIST** [2.1.01](#)

digiMine Services selected as finalist for Industry Achievement Award's **Business Product of the Year**.

Recent Press Announcements

January 17, 2001 - Technology Review, MIT's Magazine of Innovation, Names digiMine CEO Usama Fayyad to TR10 »

December 18, 2000 - digiMine Teams with EMC to Power Data Warehousing and Data Mining Service »

more stories

<http://www.digimine.com/mediacenter/>

Fig. 19R

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1909

digIMine Press Releases

digIMine

MAIN SERVICES COMPANY MEDIA CENTER In the news

media center home

MEEDIA CENTER

January 17, 2001 - TechDiving Review: MIT's DigIMine CEO Michael Fairchild to Train

December 18, 2000 - DigIMine Teams with EMC to Power Data

September 13, 2000 - DigIMine Wins 'Best of Show' at

October 30, 2000 - DigIMine Wins 'Best of Show' at

October 26, 2000 - DigIMine Awarded Overall 'Best of Show' at

Visible Events' Fourth Annual Preview Fall Media Excellence

October 3, 2000 - DigIMine Delivers Hosted Data Warehousing and Data Mining Services Built on Microsoft .NET Platform

September 18, 2000 - DigIMine, Inc. Launches The First

Integrated Business Intelligence Service

September 11, 2000 - Nasfield Fund Leads DigIMine's \$40

Million Second Round Funding

August 15, 2000 - DigIMine Bolsters Executive Team With

Former Microsoft Attorney

May 25, 2000 - DigIMine Launches New Business

Mobilization Service: Provider for Key Executive

April 3, 2000 - DigIMine Founded to Offer Next Generation

of Enterprise Analytics and Personalization Solutions

1956

http://www.digimine.com/mediacenter/pressreleases.htm

Fig. 19S

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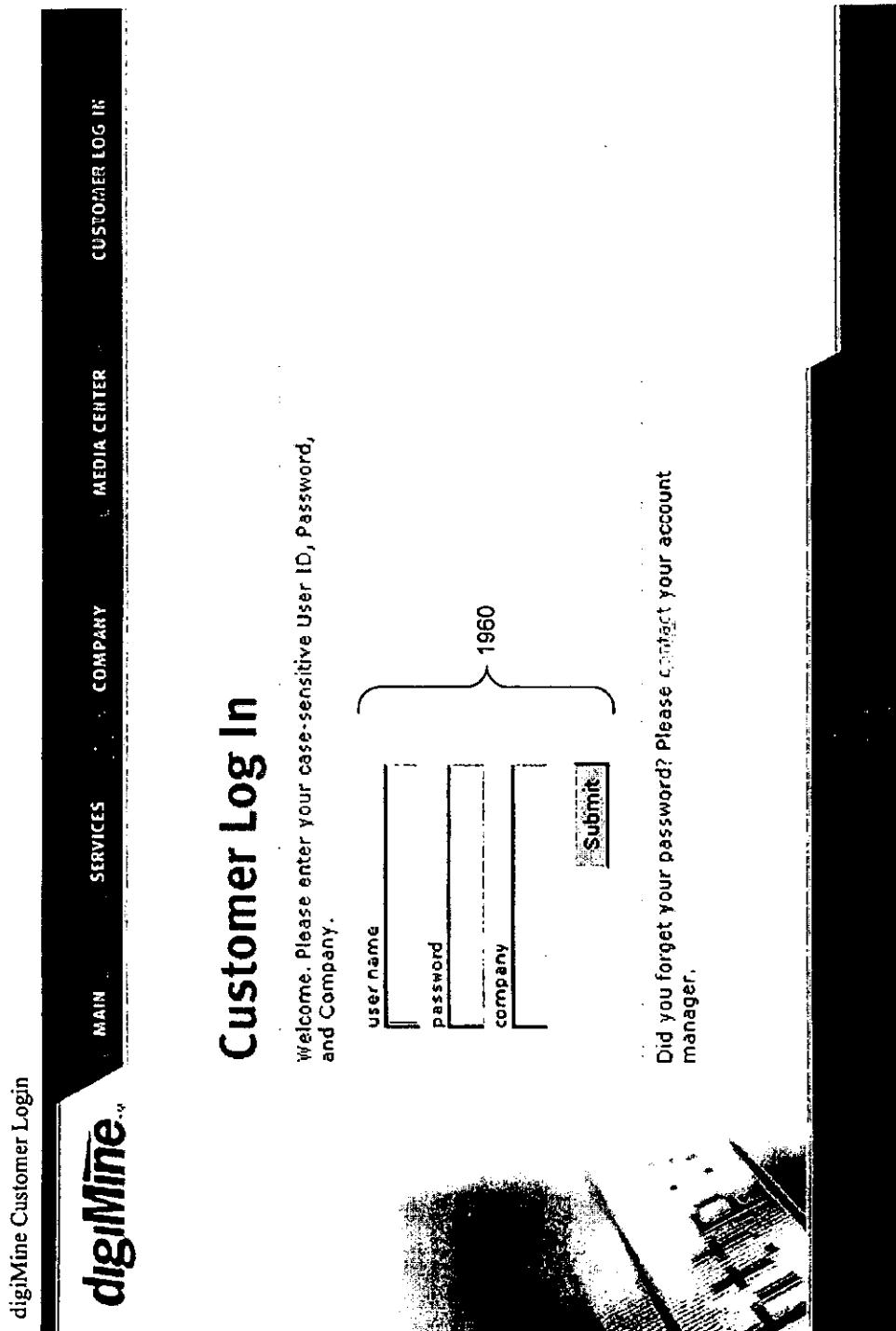


Fig. 19T

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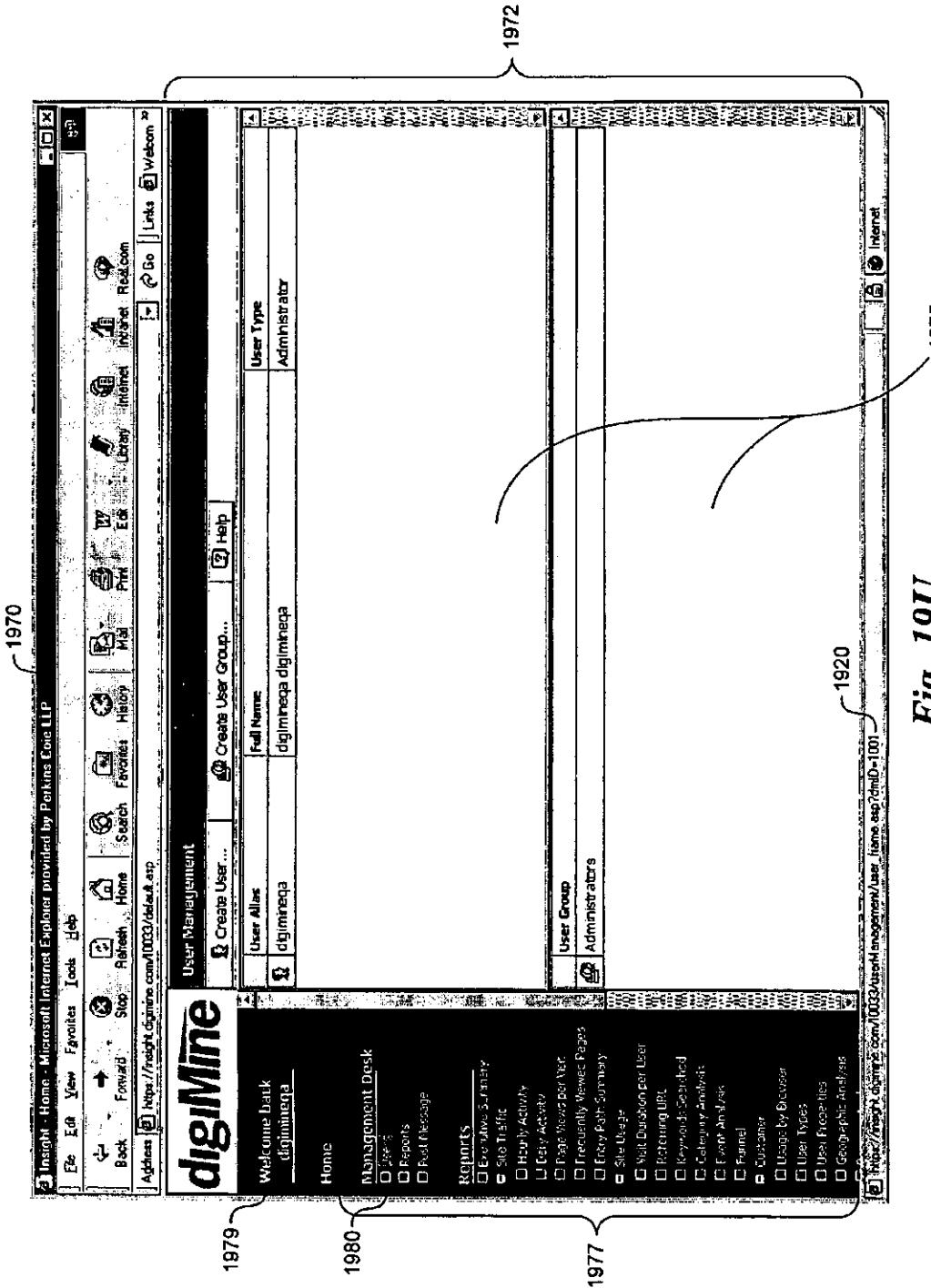


Fig. 19U 1975

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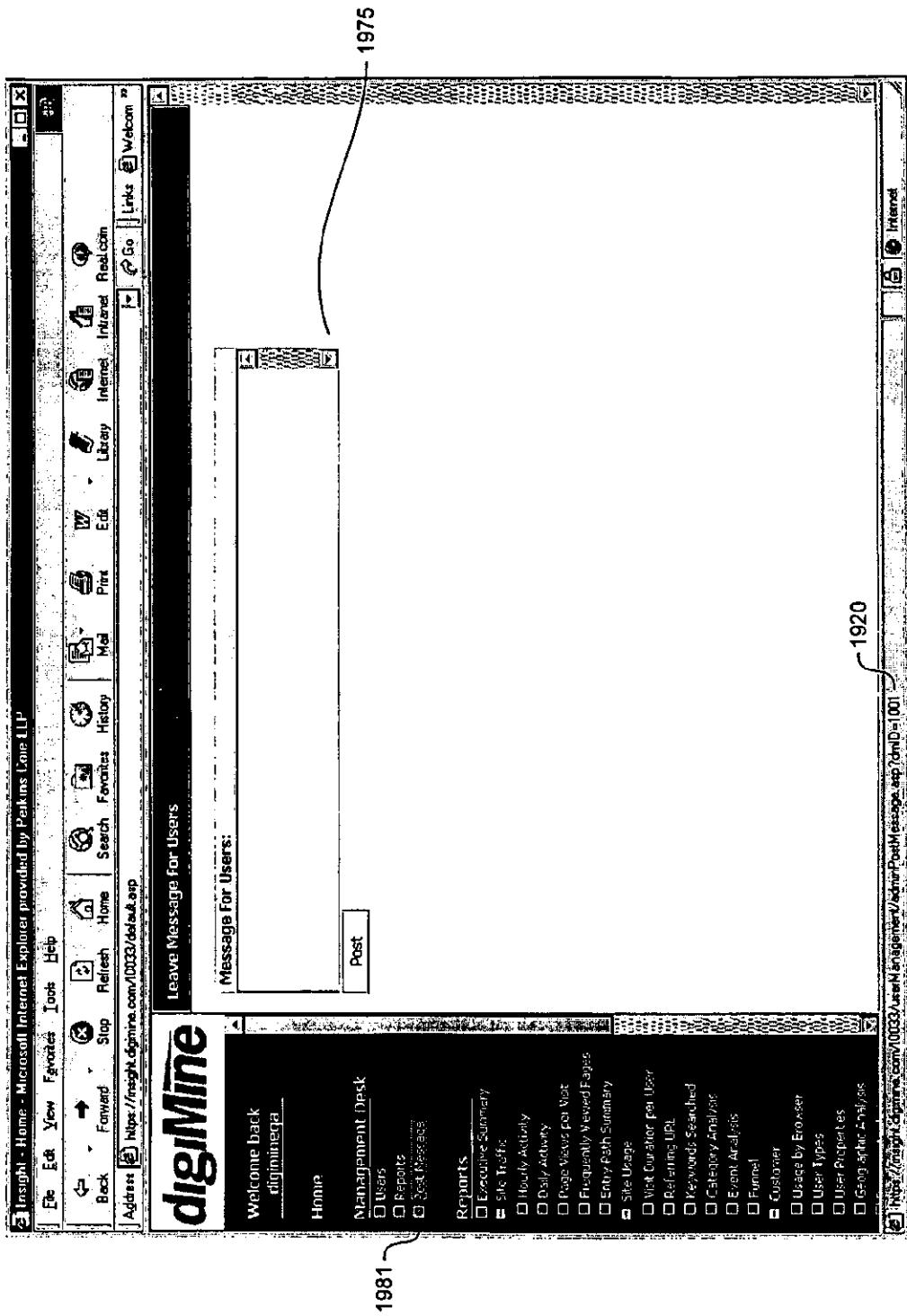


Fig. 19V

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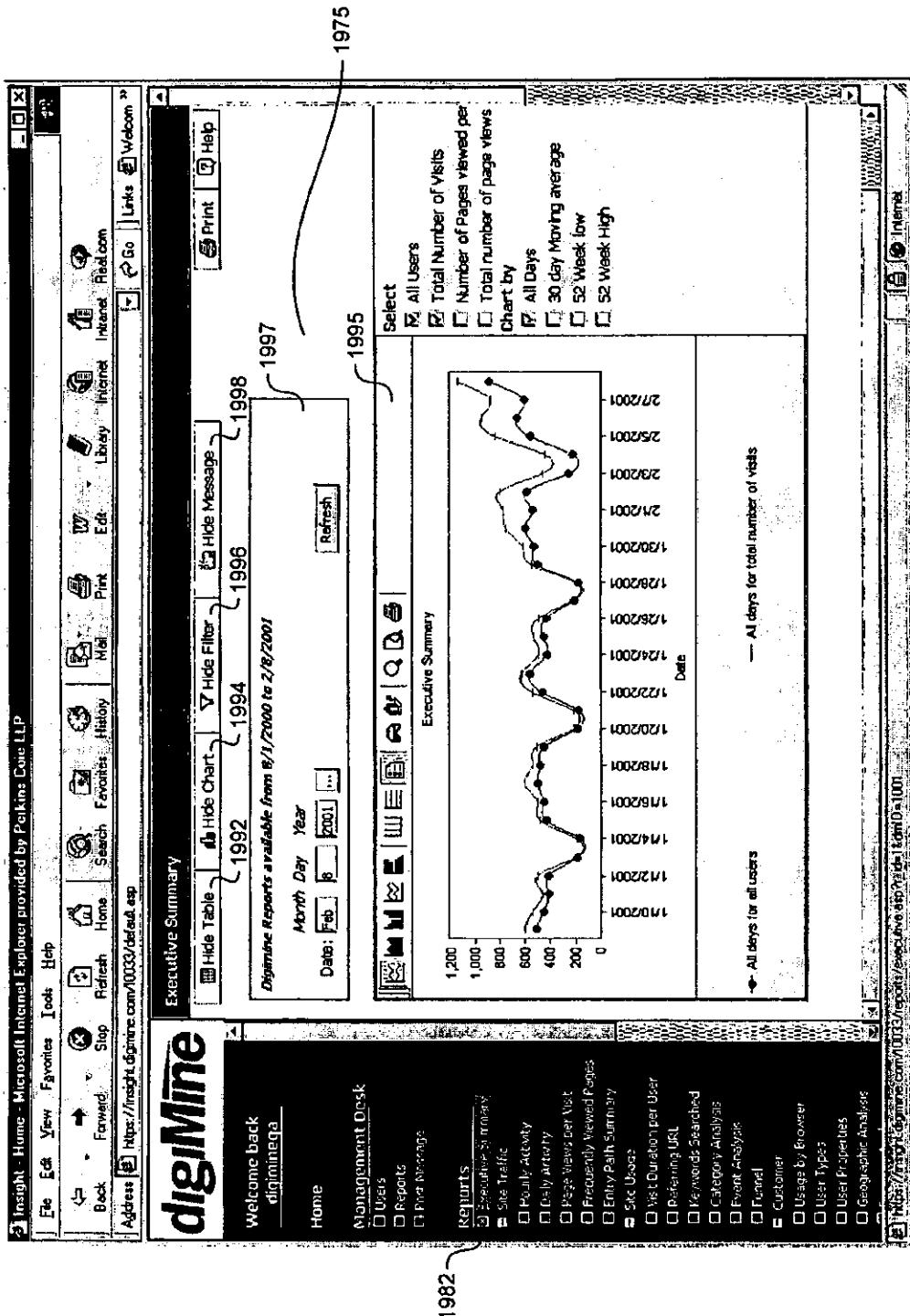


Fig. 19W

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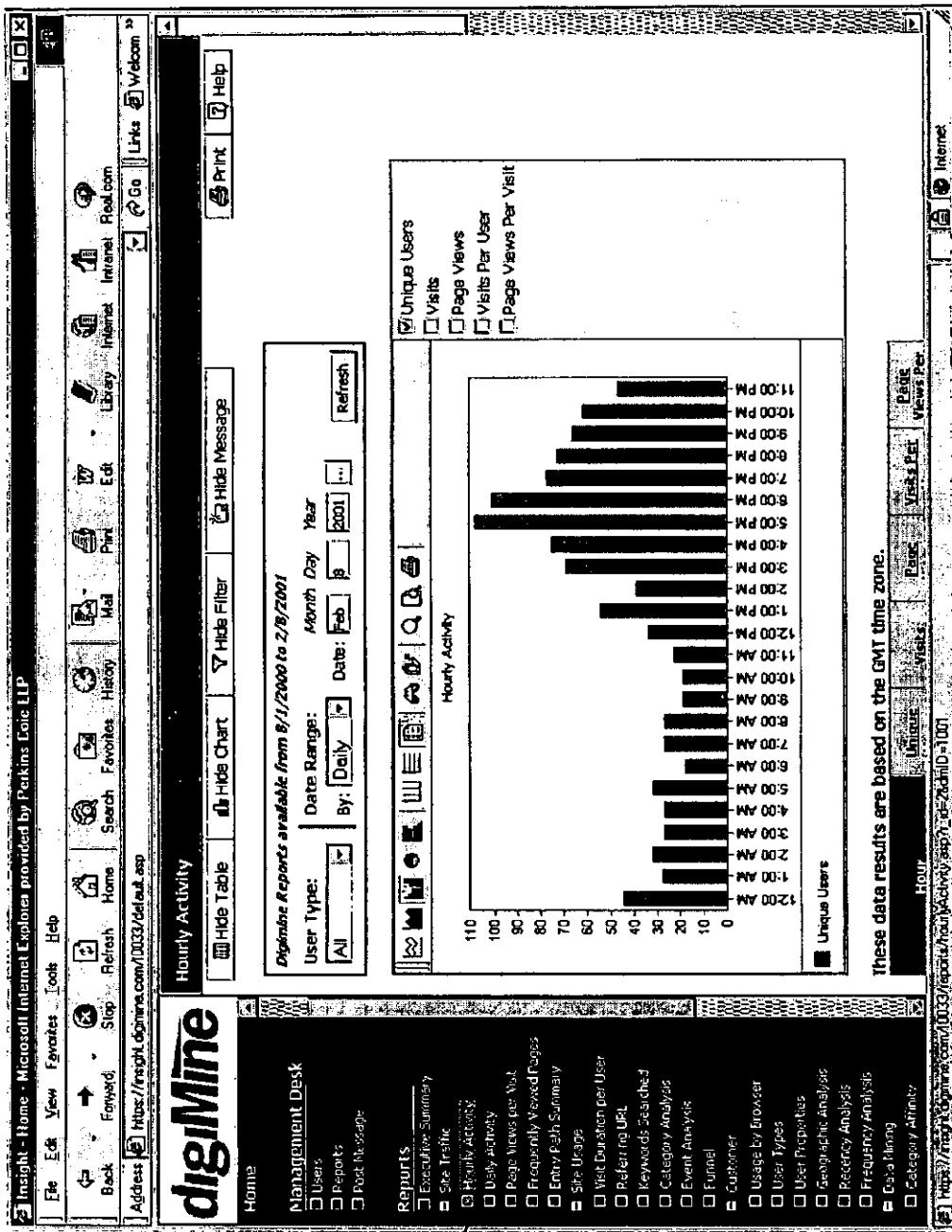


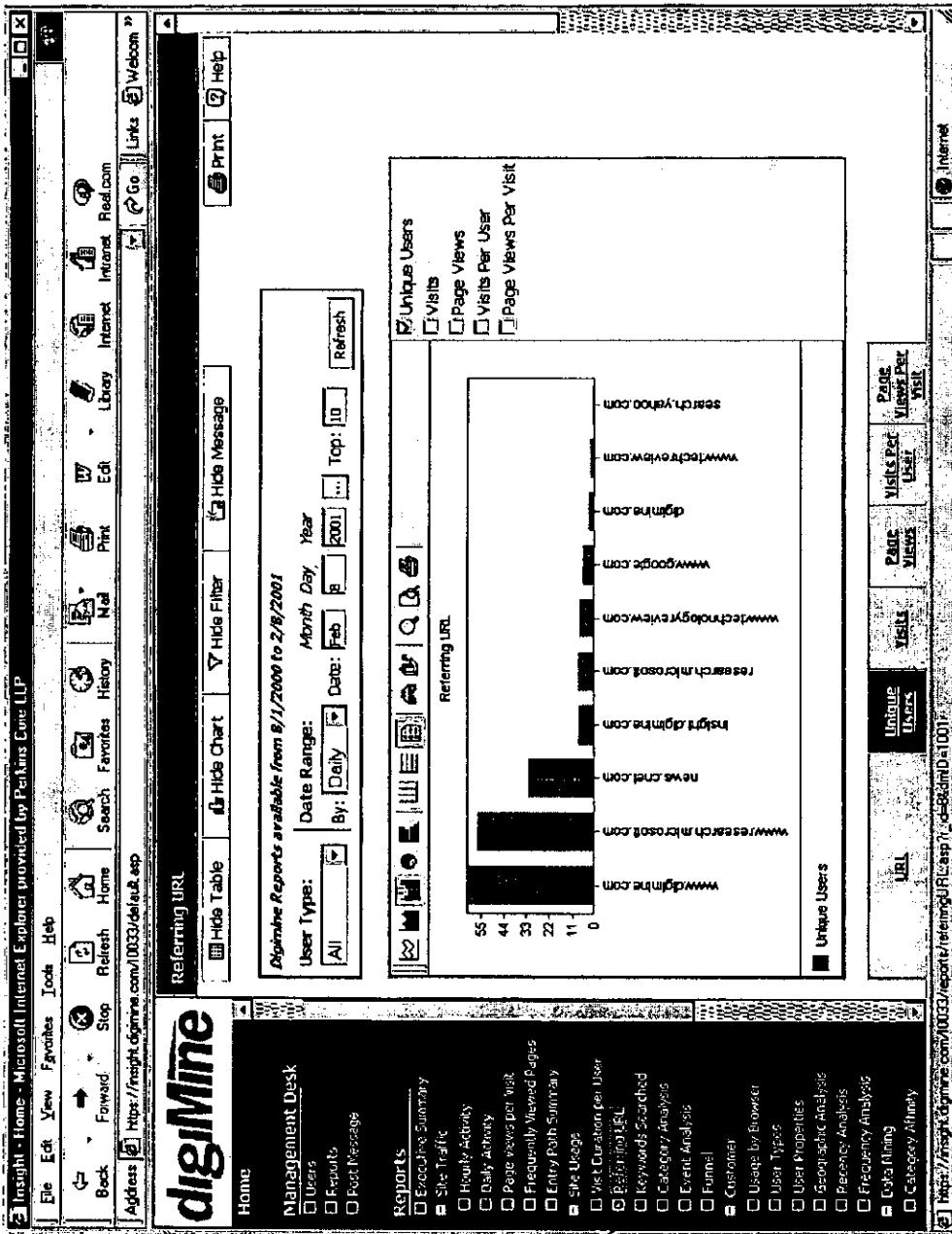
Fig. 19X

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Fig. 19Y

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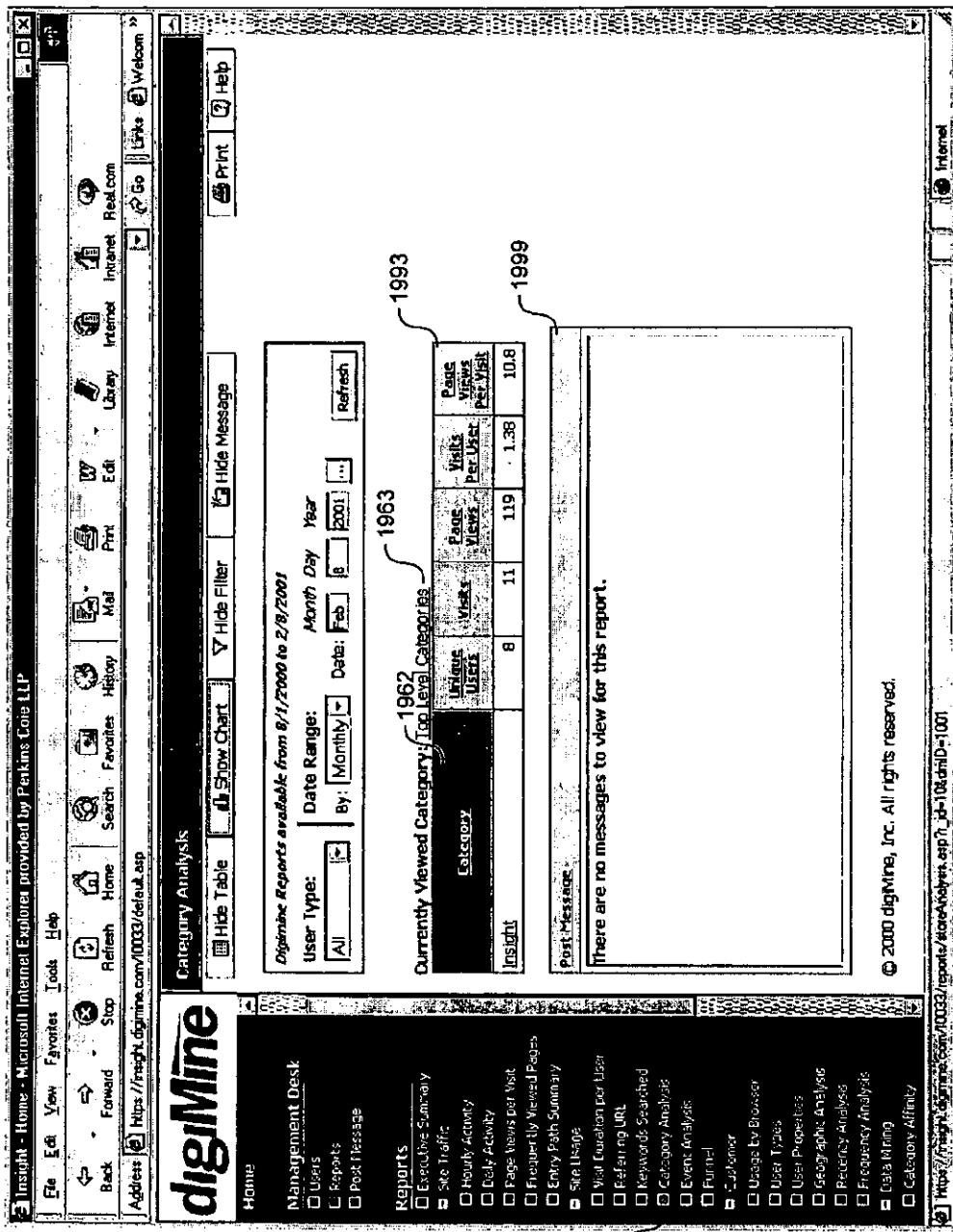


Fig. 19Z

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Example Hierarchical Category Selection

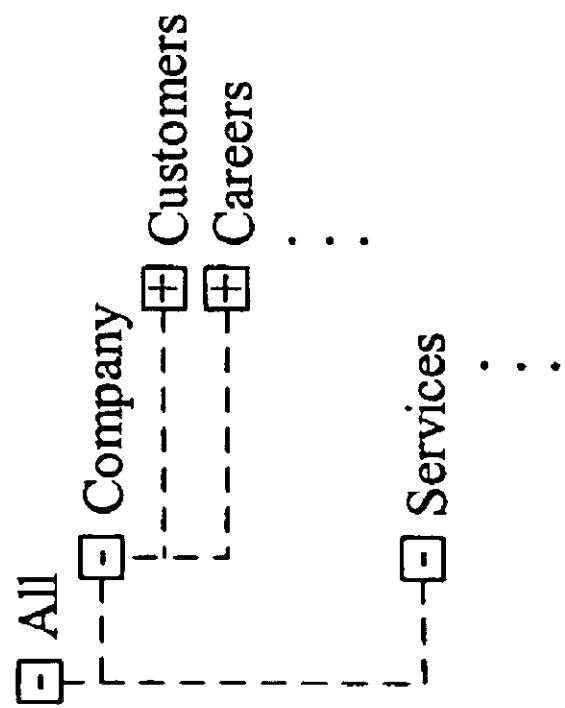


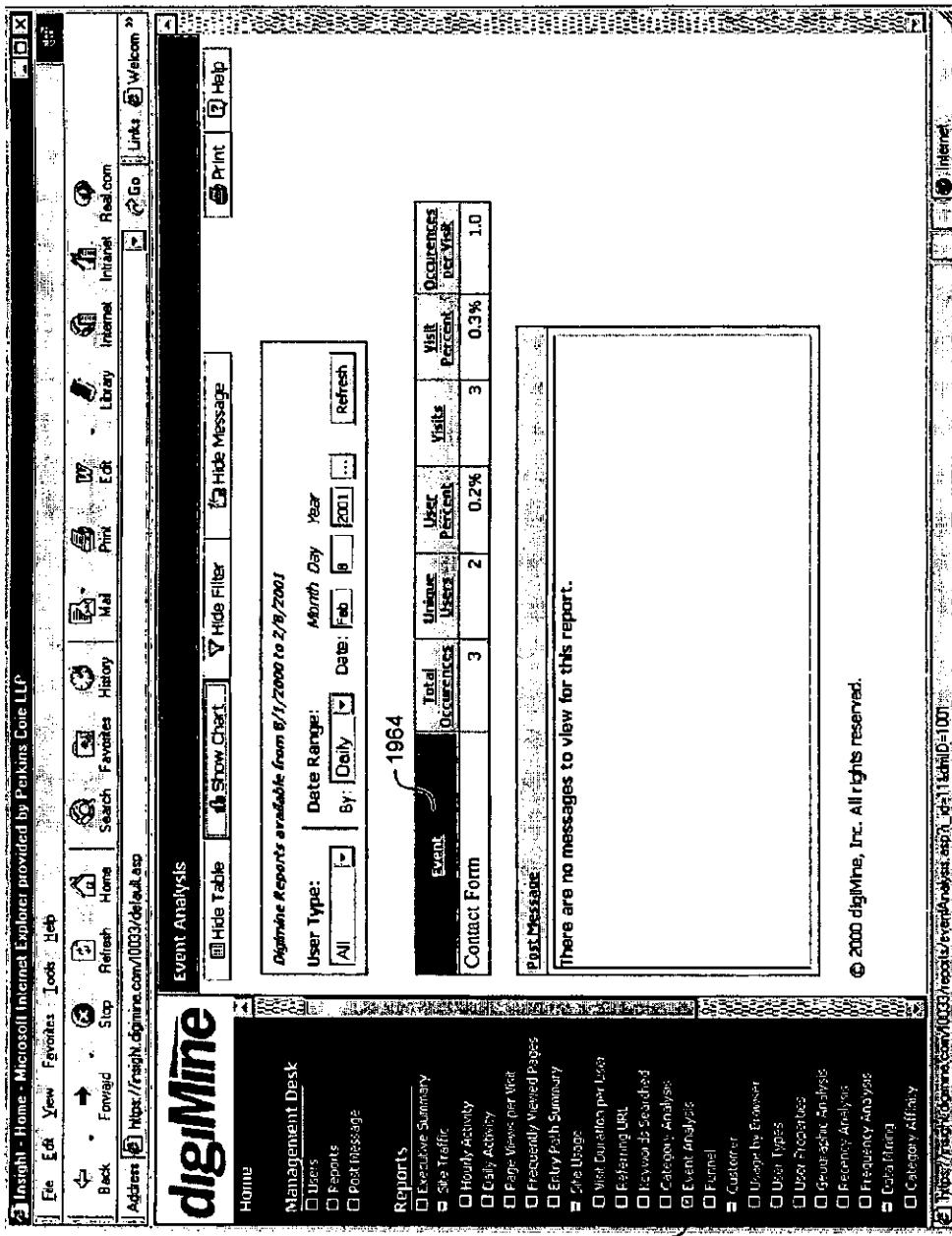
Fig. 19AA

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Fig. 19AB

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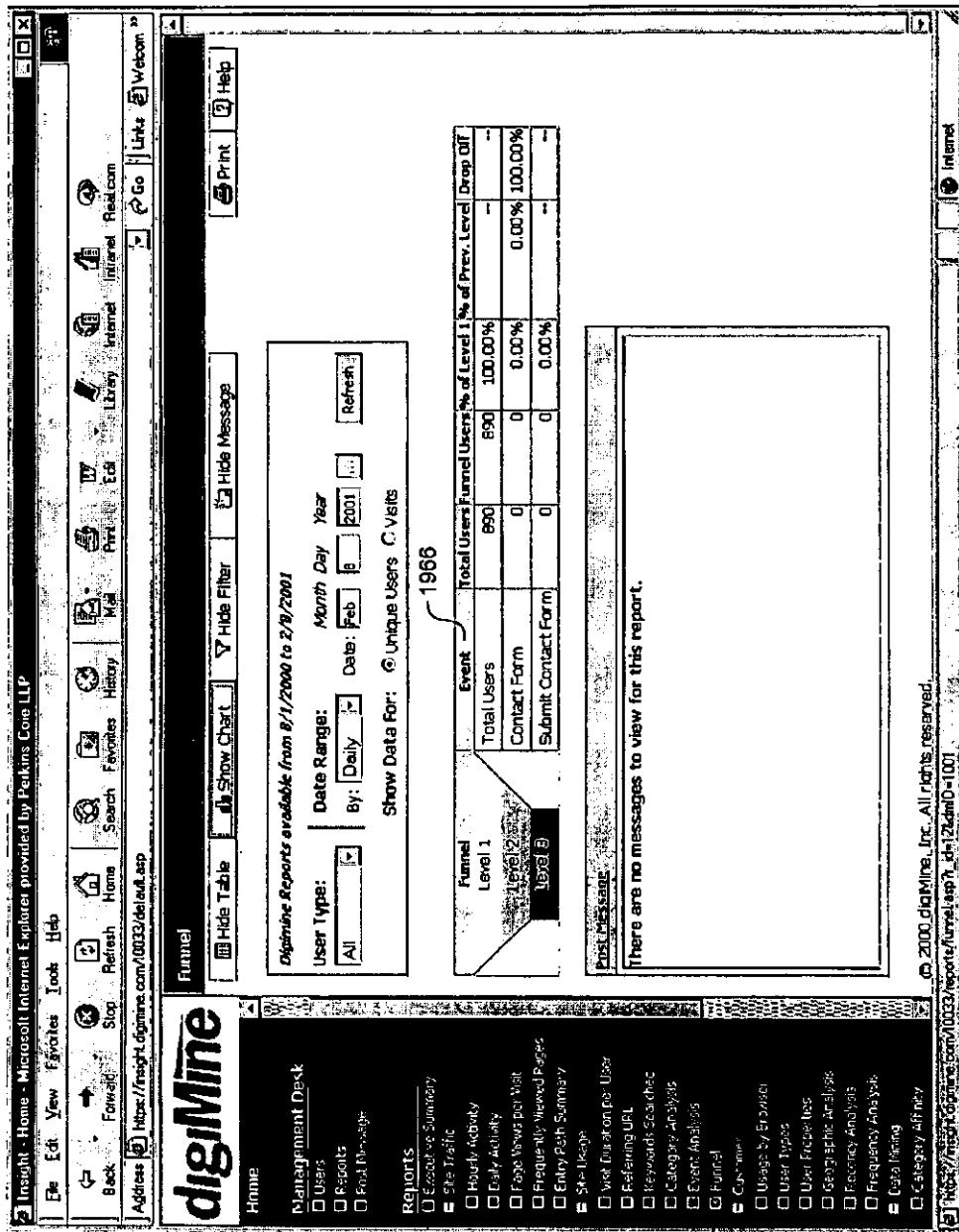


Fig. 19AC

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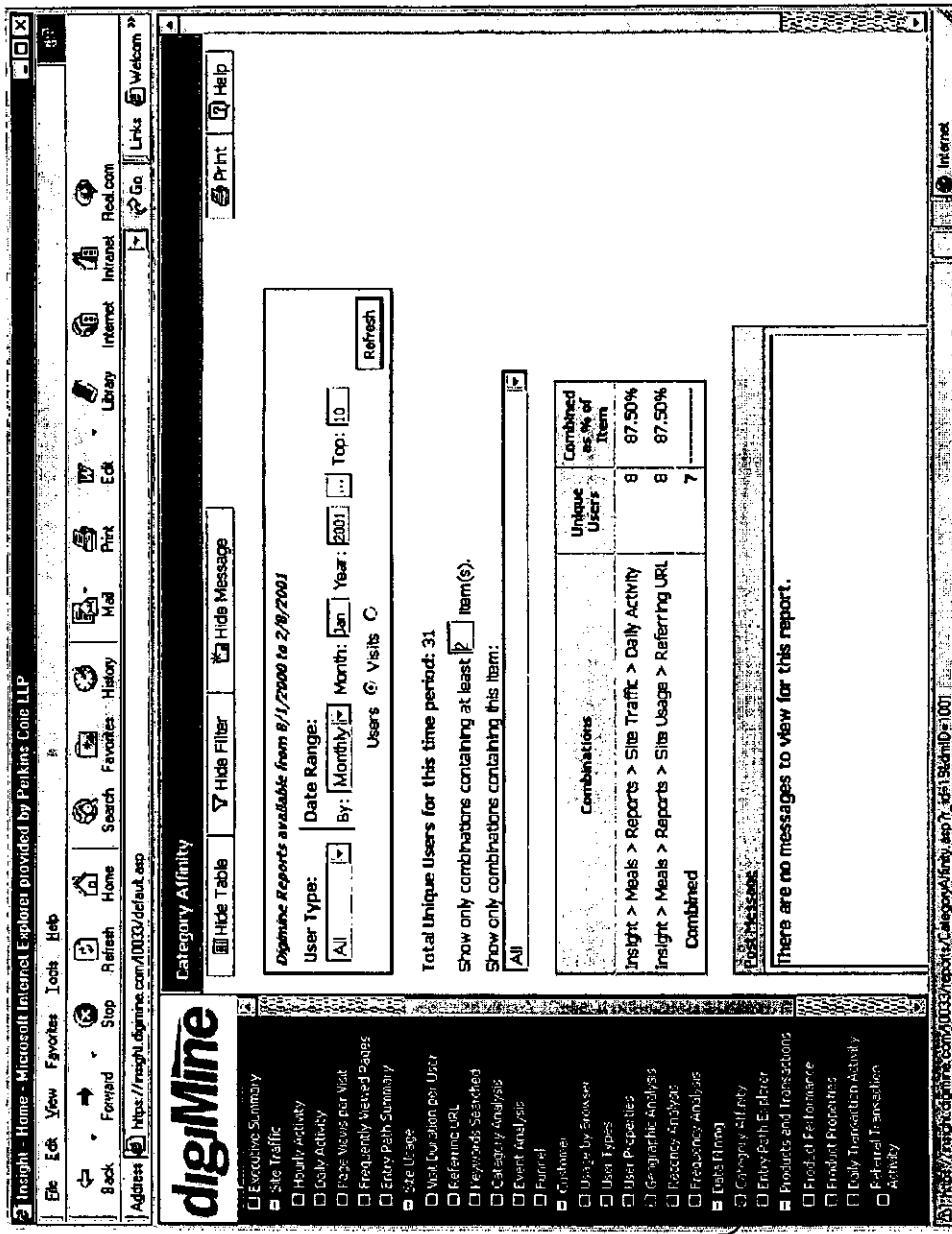


Fig. 19AD

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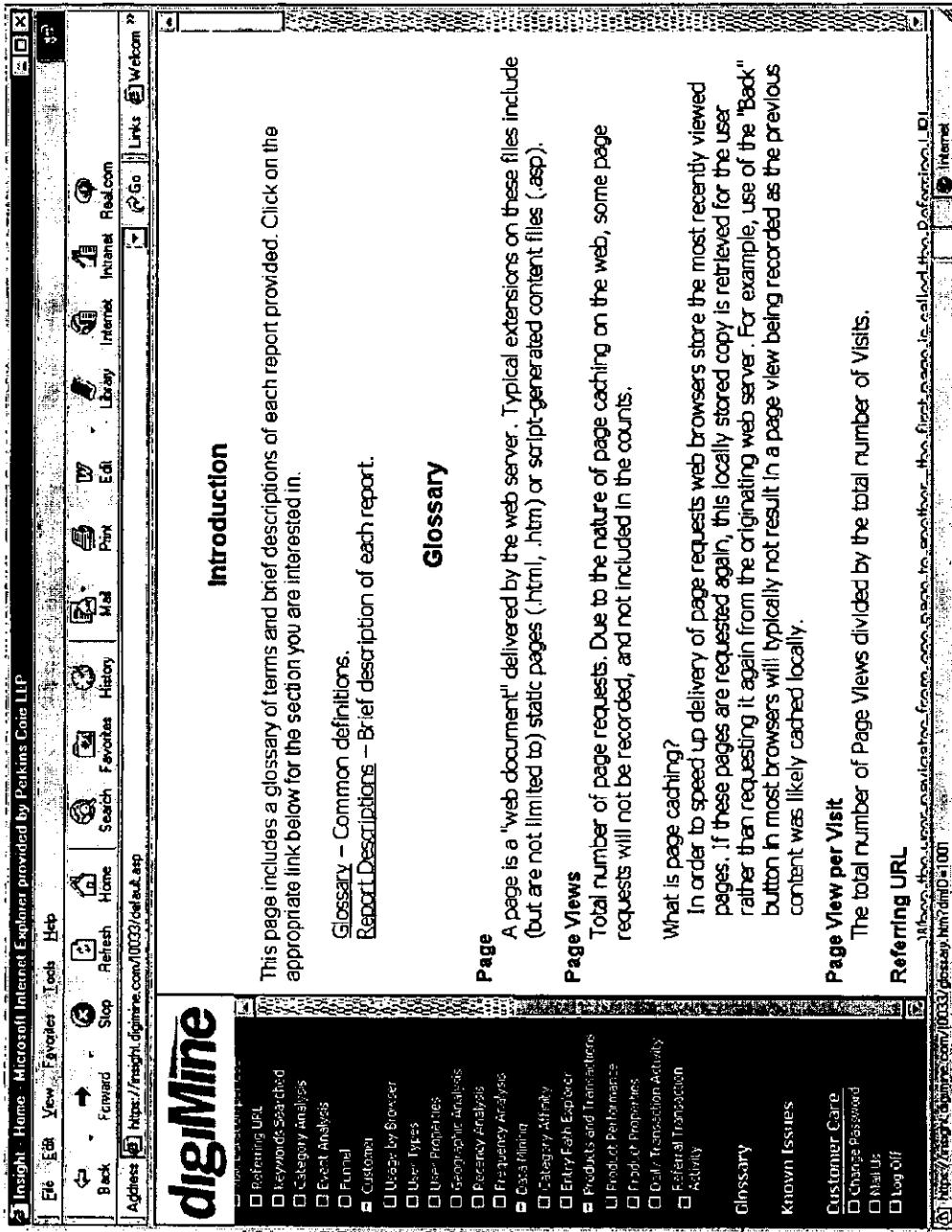


Fig. 19AE